

THE ARCHITECT & BUILDING NEWS

7 JULY 1955

VOL. 208

NO. 1

ONE SHILLING WEEKLY

- HOTEL LEOFRIC, COVENTRY
- SHOE FACTORY, LOWESTOFT
- CURRENT MARKET PRICES

PUBLISHED IN LONDON SINCE 1854

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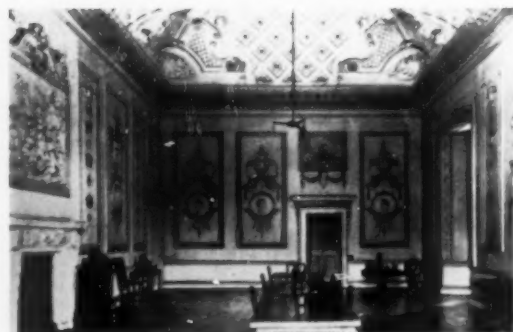
Interior aspects of this historic building show how the discreet but effective use of modern materials can provide adequate protection and still be in harmony with the essentially dignified character of the famous interiors, designed by Sir John Vanbrugh in 1721.

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The Garter Room (above) and The Vanbrugh Corridor.

Decorated throughout with British Paints Limited materials by W. Curry Limited, Chester-le-Street, County Durham. The exterior photograph is by Aero Pictorial Limited.

Steve

IS WELL IN THE PICTURE

Many a TV celebrity would, our photographer reckons, be glad to swap faces with the photogenic Harold Stevenson*, the happy Lancashire man who has taken over Williams & Williams Maidstone area.

'Steve' started learning the metal windows business 19 years ago and from 1946-1951 was Williams & Williams Fixing Supervisor in the North and Midlands and from 1951 Fixing Manager in the Southern Division, covering London, the South and South West.

His favourite recreation is walking the British Countryside. Three times he has walked up Snowdon . . . and three times seen only mist when he got there.

Now he'll be getting a clear view of architects—who, we're confident, will like not only his face, but the competent service he and his team of representatives, draughtsmen, estimators and window fixers are determined to give them.



*Mr Harold Stevenson, Williams & Williams Ltd.,
23 Lower Stone Street, Maidstone, Kent (51750)

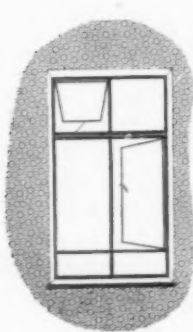
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METAL WINDOWS

WILLIAMS & WILLIAMS



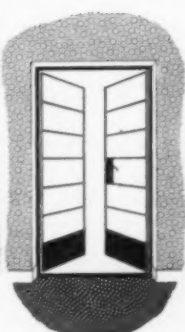
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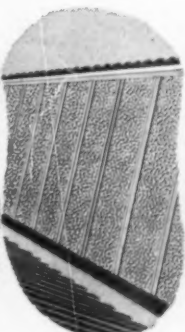
Metal Windows



Wallspan Curtain Walling



Metal Doors



Aluminex

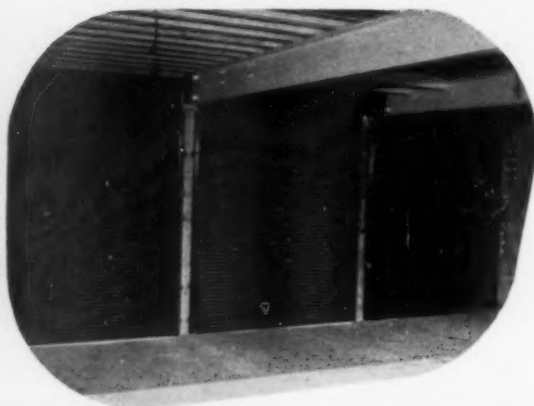
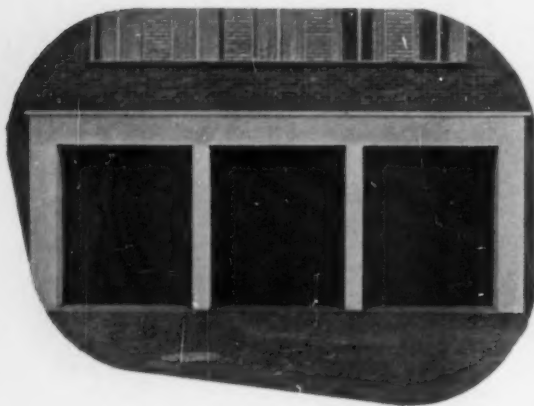


Metal Door Frames



Roofed Toilet Cubicles

ADAM SHUTTER INSTALLATION



Photographs by kind permission of Messrs. Sparrow & Platter, A.I.A.R.I.B.A.: Architects.

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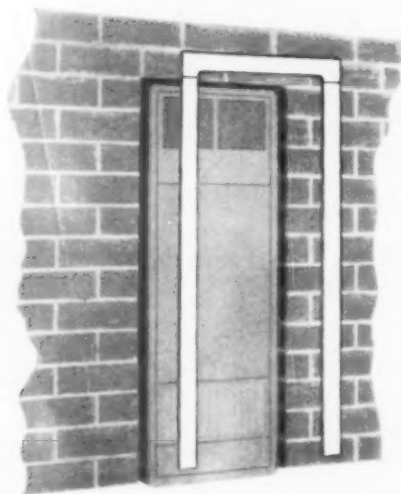
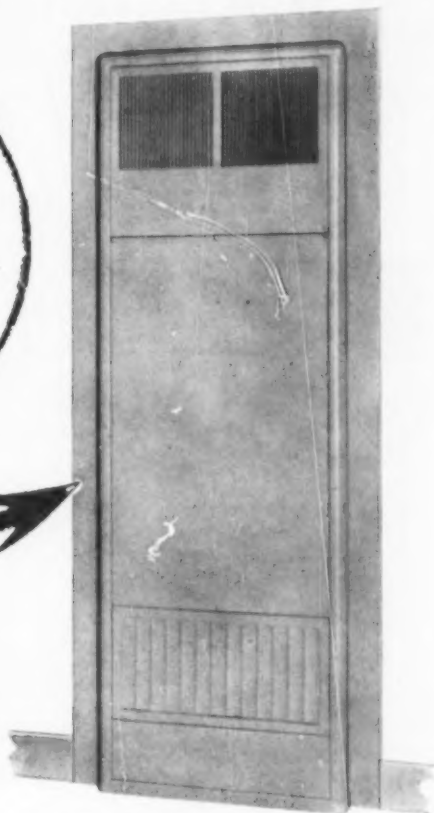
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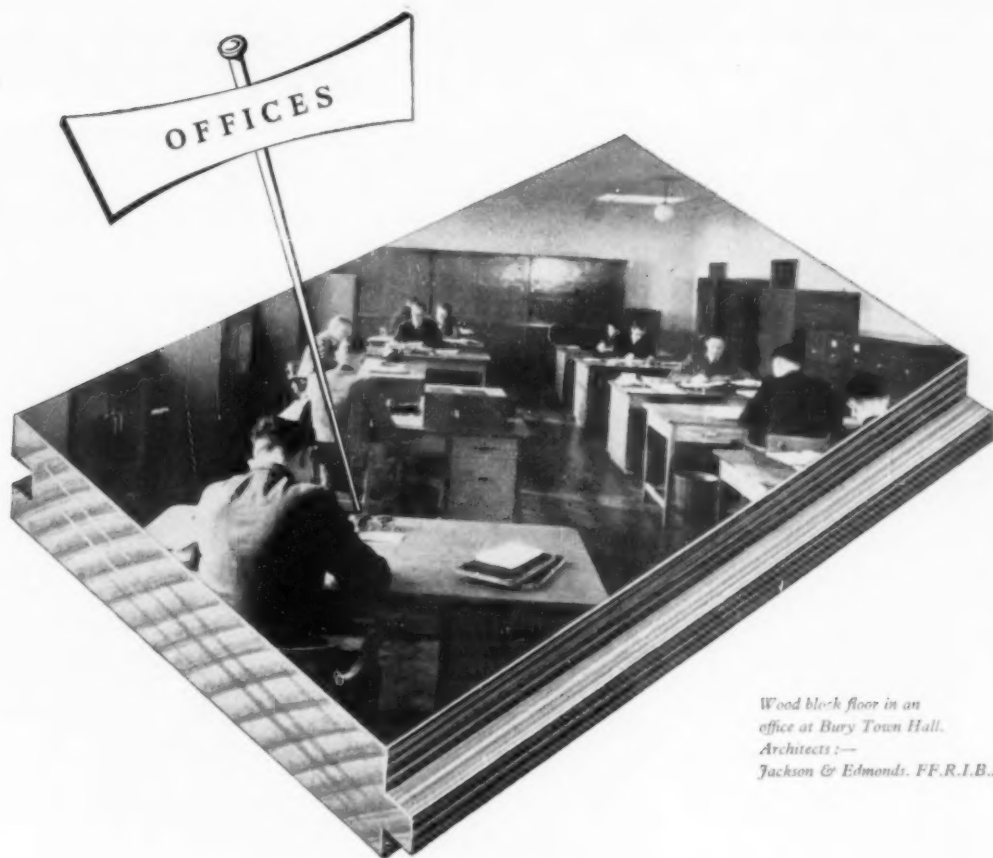
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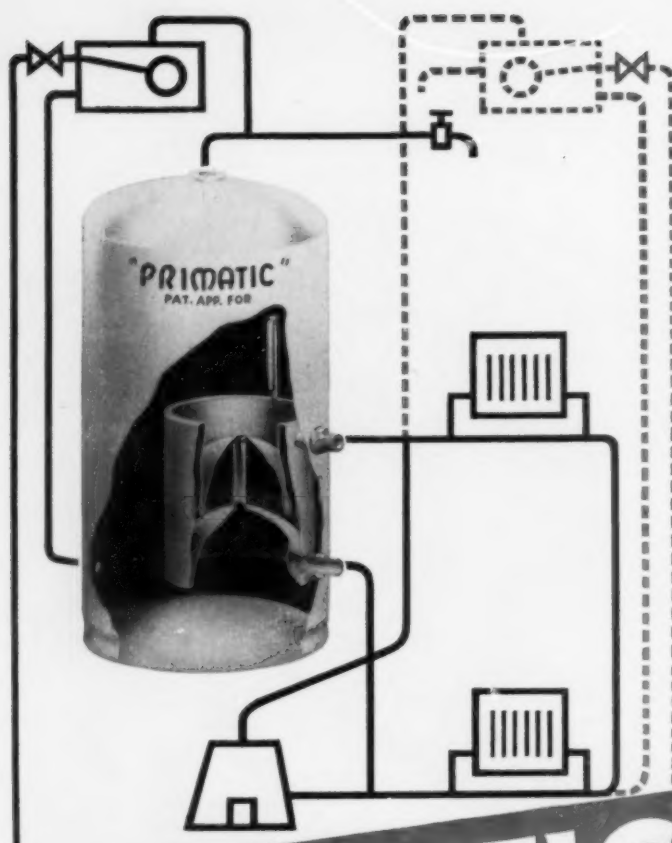


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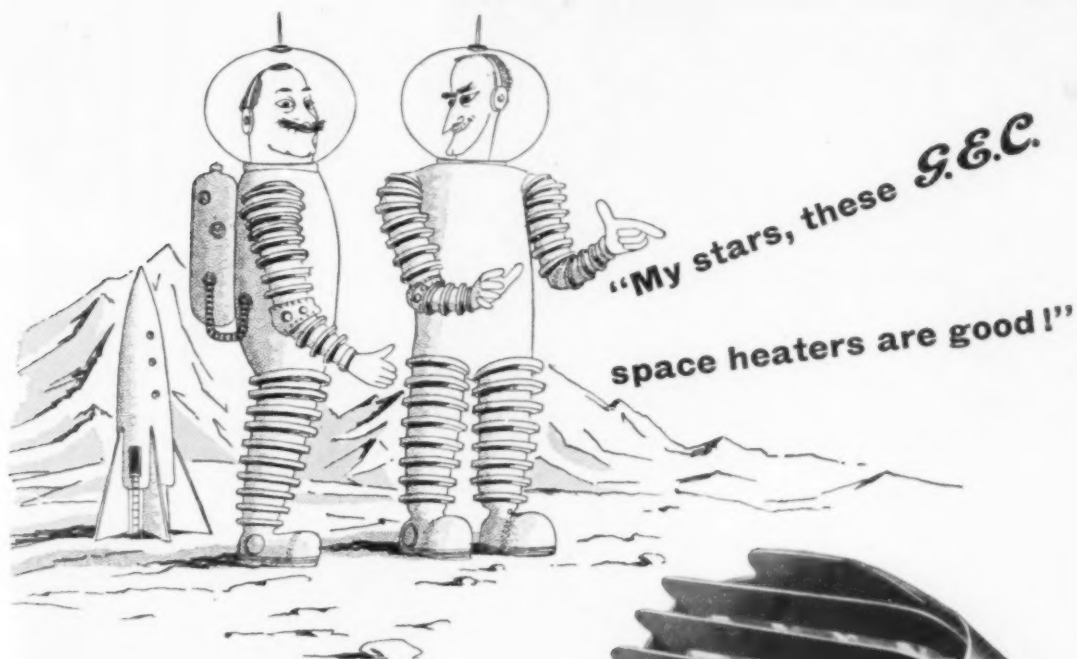
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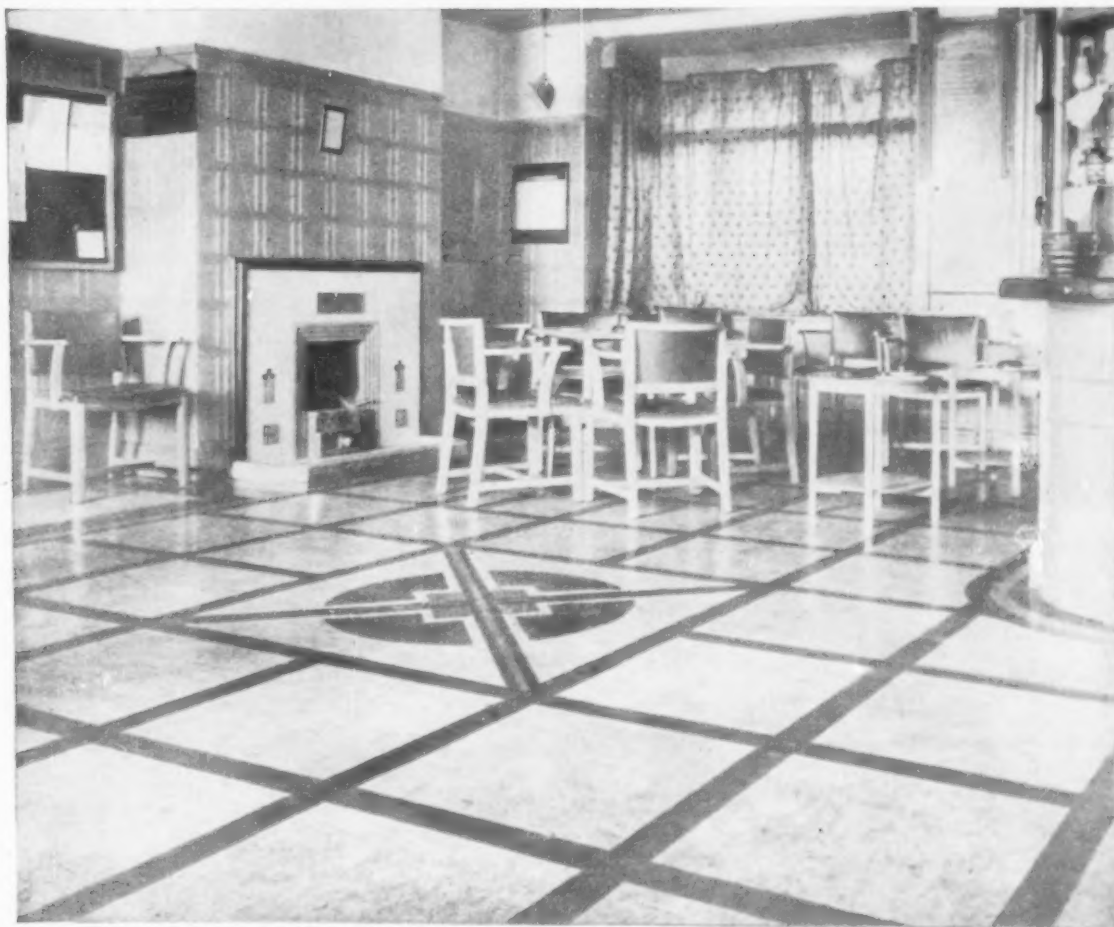
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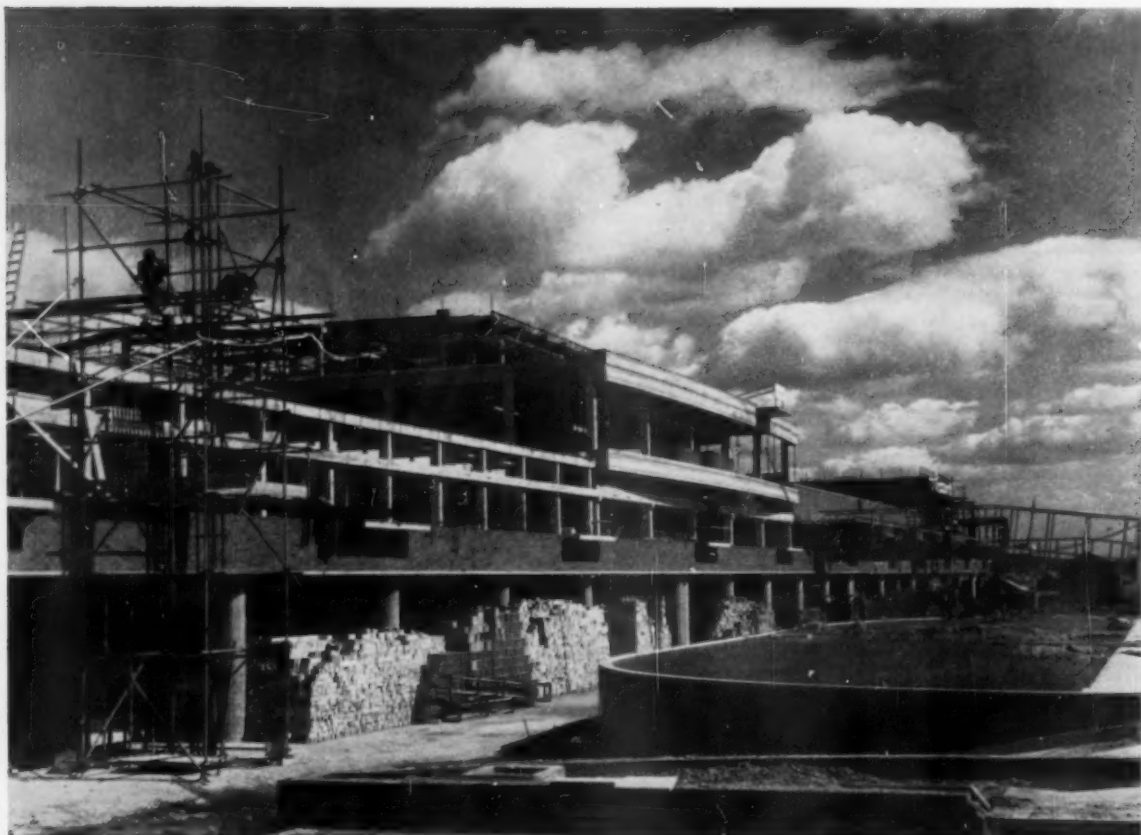
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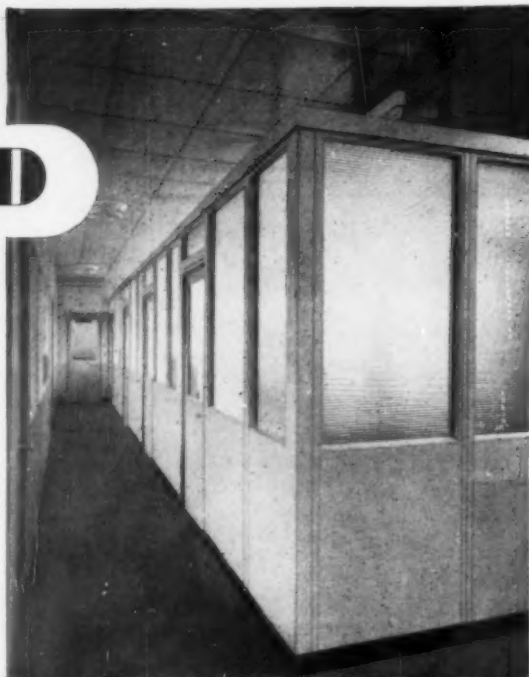
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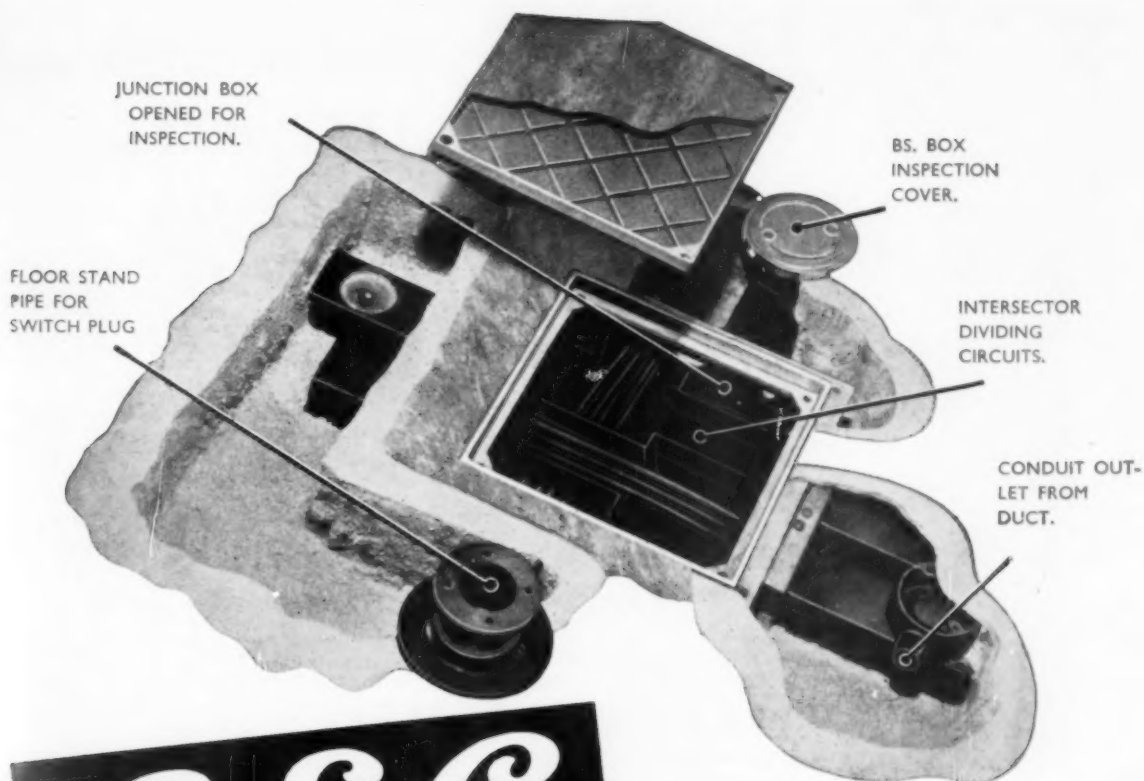
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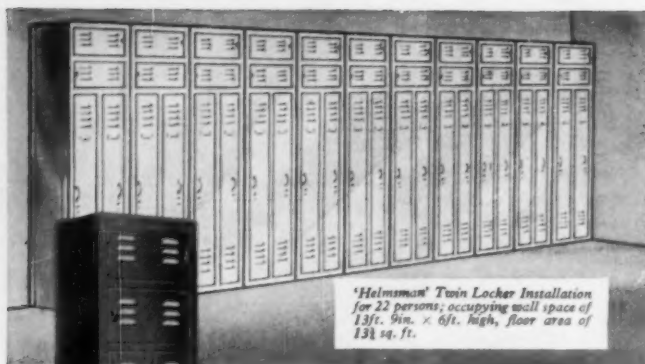


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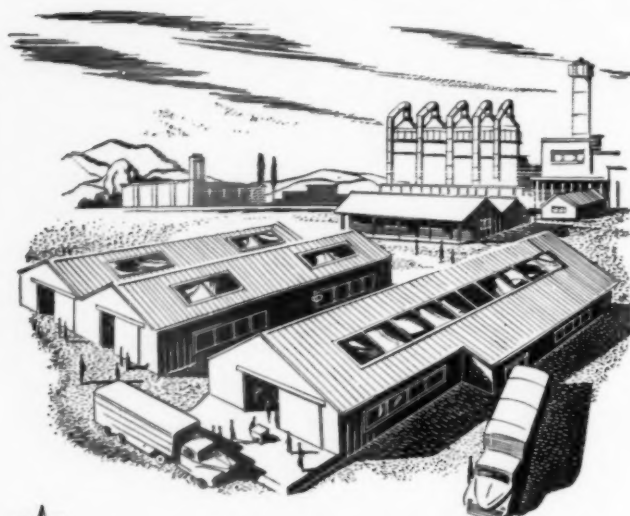
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The Unimer building consists of tubular steel trusses, purlins and sheeting rails, used in conjunction with tubular steel columns, in a wide range of spans and heights.



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ADVANTAGES

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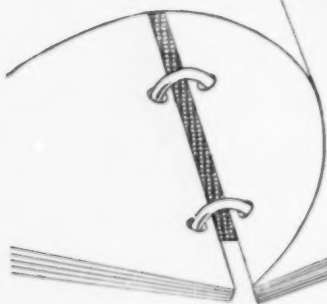
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THE ARCHITECT & BUILDING NEWS

7 July 1955

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SOMETHING OLD AND SOMETHING NEW

IN the House of Lords debate last week on the motion that "Full use should be made of the powers provided by the Town Development Act, 1952, in order to relieve congestion in overcrowded urban areas, and that at the same time green belts should be established to prevent the further sprawl of large cities into the countryside," all the familiar arrows were shot into the air.

It is time that this problem ceased to be regarded as a game of chess between protagonists of high-density, high-block urban development and low-density, house-and-garden development on the other.

The problem posed by urban overspill demands the resort to both means simultaneously, each used properly and not as general principle by crusading pariahs.

What is important is that in each case good models should be followed. In the Golden Lane scheme in the City of London now in course of erection, we have what promises to be a good urban solution. Elsewhere in London the L.C.C. are pegging away with their policy of building up on sites with easily accessible open space.

It is only when all available town sites have been exhausted by such schemes that we are justified in spreading over fresh land.

But the overspill figures for the large cities are so vast that they can only be written off by planned emigration to new or expanded towns.

So many difficulties of a financial and administrative kind are involved that the Government through the Ministry of Health and Local Government must exert its leadership much more vigorously if this re-orientation of the nation's population is to go through tolerably well. The Green Belt slogan is not enough.

At the time the new towns were under discussion we argued in favour of completing the first one as rapidly as possible as a guinea-pig for those to follow,

on the grounds that not only could mistakes be rectified, but that a town in the true sense would act as a magnet whereas a larger number of half-completed schemes minus their social and civic centres would hardly attract at all.

What is the position to-day? Mr. B. J. Collins* recently said "the predicament of the overgrown towns is that they show likelihood of overspilling without cessation and with little diminution because like a pool with a spring beneath it, they gain from the source of their own attractions an uninterrupted supply of the population they are discharging. The true remedy can only be the primary creation of equal attractions, which are houses and jobs, in a thoroughly competitive way in the reception areas."

The pattern should be a bold one; the existing large cities, which are much too vital to the country's economic life to be allowed to decay, should be kept within bounds and with a distinctive urban and not suburban character; the expanded towns should be given a blood-transfusion on a scale that will restore them but not give them high blood-pressure; and new towns safely outside the magnetic field of the old conurbations should be created simultaneously for the remainder of the overspill.

In between all these we have the right to expect an agricultural countryside free to produce its target of two-thirds of our food requirements without having to look over its shoulder all the time to see where new "building land for sale" notices have gone up.

MATCH ON THE CENTRE COURT

If it is true that the Court of Common Council has decided not to appoint a City Architect it will lend point to the M.A.R.S. group exhibition being opened by the Lord Mayor—ironically enough—in the centre

* "The Problem of the Overgrown Town," by Mr. B. J. Collins, County Planning Officer for Middlesex.

court of the Royal Exchange on July 12. Mr. Maxwell Fry speaking in connection with the exhibition, said that the City was in a state of stagnation and indecision and more retrograde than Oxford and Cambridge.

"London should express the best of which this country is capable," he said, "we have the talent that can produce contemporary architecture of lasting value. What is needed now is a clear call from the City for the best architecture available."

EVENTS AND COMMENTS

SNAKES AND LADDERS IN THE CITY

The attempt to appoint an architect for the City of London has ended in confusion and no one quite knows what will happen now. Those of us who have one ear permanently glued to the ground knew of an earlier—and different—short list than the one published. Indeed it was nearly published but it suddenly became known that the list had been drawn up without the knowledge of the City Town Planning Committee and, having climbed the ladder, all the applicants slid smartly down the next snake. Not long afterwards a short list was published and appeared in the *A. & B.N.* on June 16. The applicants were once more at the top of the ladder. They were interviewed by the Court of Common Council and all apparently found wanting in the eyes of that august body. This time the downward snake took them way below the starting line. I understand that the matter has been referred back to the Officers' and Clerks' Committee and that the whole question of the appointment of an architect is to be considered again. The trouble was that the inability of the Council to decide in favour of any one candidate played into the hands of the section of the Council which is opposed to the appointment of an architect anyway.

THE L.C.C. TAKES A WRONG TURNING

I find no time so gloomy as the eve of my holiday. Black clouds press in on all sides. It is indeed unfortunate that the L.C.C. has seen fit to put a surveyor-planner and not an architect-planner at the head of its department in Arthur Ling's place.

Surely this will put an added burden on Dr. Martin, who for some odd reason has no deputy. I would have thought that it was a vital necessity to appoint a planner with an architectural background, particularly at this stage in London's rebuilding. Let us hope that the general misgivings among London architects about this appointment will prove to be unfounded. When Mr. Ling's appointment was announced I wrote of the rumour of a change of policy in the T.P. department which it was thought might involve its removal from the architect's department altogether. The new appointment would not be out of keeping with such a development.

FOG AT CAMBRIDGE

The third mystery concerns the appointment of a Professor of Architecture at Cambridge University. Again

there has been much speculation and rumours of all kinds. It has even been suggested that possible holders of this post were discussed even before they had made application. At least one person was actually offered the job, or so the grape vine says. The latest news is indeed baffling. It is said that the die is cast, the appointment made, but, *at the request of the successful applicant*, his name is not to be announced for several months because he has not yet given his present employers notice. This will cause some eyebrows to lift in school committees; governing bodies, senates and the like may well search their headmasters' faces for a sign, while they contemplate the awful task of finding someone to replace them.

THE APPRENTICES' EXHIBITION

The urgent need for apprentices was stressed by Minister, employer and operative at the opening of the exhibition of apprentices' work at the B.C. last week. Elaborate arrangements have been made by the Centre to encourage boys of school-leaving age to visit the exhibition and the L.M.B.A. is to provide speakers to address organized parties.

The exhibition has an introductory section which shows the apprentice training system in the industry, and continues with sections prepared by the M.o.W. and L.M.B.A., the first illustrating some of the powered hand tools in use in building and the second explaining the L.M.B.A. medal set-up. The boys' work is shown in a series of bays, one for each trade, and for the very first time in my experience the work is really well displayed. Many of the examples of carpentry and joinery show extremely good workmanship and although some of the design is out of date it is, generally speaking, of a much higher standard than one is accustomed to see in such exhibitions. Each trade is well represented and the only real shock comes from the brickwork which, though beautifully done, incorporates some dreadful detailing. Everywhere, however, the presentation is good and the exhibition cannot fail to impress by the combination of this and the high technical skill which produced the exhibit. The organizers are to be congratulated on a first-class show with a special word of praise to the B.C. for producing the best exhibition of its kind yet seen.

CANTERBURY SCHOOL OF ARCHITECTURE

This lively joint held its Open Day last week when the prizes were given away by the Mayor, and Mr. Gontran Goulden addressed the students. At the end of the proceedings Mr. Goulden was presented with a giant spanner weighing about 40 lb and was invited to add it to the tool kit of his car.

My agent reports an attractive exhibition with a generally high standard of work. Some excellent perspective sketches and colour work can be seen in each year.

Mr. Robert Paine, the principal, is most enterprising, and this year, to celebrate the 10th anniversary of the school's first measuring camp at Merworth, he is leading (from a sleeping car) a party of 60-odd assorted students (third class) on a visit to Rome.

It is sad to find that Mr. Hugh Wilson, the admirable city architect, still meets with tough opposition at every turn. It is much to his credit that Canterbury is developing so well in spite of the kicks and abuse of the ignorant.

The Mayor supported Mr. Wilson handsomely in his speech by saying that he was a strong believer in taking the advice of those qualified and appointed to give it.

ROADS

When is the Government going to build some decent roads in this country? The combination of inadequate roads and the English style of driving make long-distance road travel a nightmare even by day. I often wonder

what visiting French tourists think of our meandering middle of the road 30 m.p.h. processions.

THE IMMEDIATE PROSPECT

Having got so far with my homework I can almost allow myself to think of to-morrow, the Kronprins Frederick, smorbrod and the Tivoli gardens not far away. I must to my packing. Next week, News from Halsingborg.

ABNER

NEWS OF THE WEEK

Designs for Theatres and Theatrical Settings

In connection with the International Conference on Theatre History which is being organized by the Society for Theatre Research from July 17-23, the R.I.B.A. is staging a small display of Designs for Theatres and Theatrical Settings chiefly from material in its Library Collection. This will include original drawings by Inigo Jones, the Galli-Bibiena family, G. S. Repton, Benjamin Wyatt and sketches of classical theatres and English, French and Italian engravings.

Material from other sources will include: The Farnese Theatre, Vanvitelli's original drawings for the theatre in the Palace of Caserta, and other material kindly lent by Edward Craig, Esq.

A model, drawings and photographs of the designs for a theatre for The Questors, illustrating its adaptability to five different kinds of stage.

A model of the Georgian Theatre at King's Lynn lent by St. George's Art Trust of King's Lynn.

Illustrations of the reconstructions to the Georgian Theatre at Richmond, Yorkshire, to the designs of Richard Leacroft, Esq., A.R.I.B.A.

The exhibition will be on view at the Royal Institute from Monday, July 18-Saturday, July 30 (Mondays-Fridays 10-7; Saturdays 10-5).

Truscon Scholarship Award

The Truscon Travelling Scholarship for a three-week tour of Continental buildings to study recent developments in concrete design has been awarded to Mr. Alexander Redhouse, A.R.I.B.A., a partner in the firm of Fry, Drew, Drake and Lasdun, and a member of the teaching staff of the Polytechnic School of Architecture, Regent Street.

Competition: New Council Building, Uganda, E. Africa

The Uganda Government invites architects registered in the United Kingdom or East Africa or corporate members of the R.I.B.A. in East Africa to submit in competition designs for a new Legislative Council Building, comprising a council chamber and ancillary offices to be erected in Kampala.

The Assessor is H. Thornley Dyer, F.R.I.B.A., A.M.T.P.I.
Premiums: £750, £500, £250.

The closing date for sending application for conditions August 20, 1955, and last day for submitting designs, January 21, 1956.

Conditions may be obtained by application to the Clerk of Legislative Council, P.O. Box 2278, Kampala, Uganda, East Africa.

Electrical Convention

The seventh British Electrical Power Convention was held at the Dome, Brighton, from June 27 to July 1 under the Presidency of Sir Harry Railing, D.Eng., Hon.M.I.E.E. In addition to the convention an electrical exhibition was held at the Sports Stadium, West Street.

A number of interesting papers were read and the several functions were well attended. The principal guest at the annual dinner and dance at the Corn Exchange was the Right Hon. Geoffrey Lloyd, M.P., Minister of Fuel and Power, who proposed the main toast "The Electrical Industry."

The exhibition, at which some hundred associations and firms took advantage of the opportunity to display their latest designs and improvements, was popular with the general public who were admitted for the last three days.

Siemens Bros. group of companies had on view a high speed indicator for arrival and departure purposes at railway termini and airports, and a number of other applications are possible. Many other exhibits were to be seen on this stand, including the "Sierack" system of cable-carrying which, in addition to providing an easily erected means of cable-supporting on site, can be utilized as lighting.

A full range of domestic appliances was displayed by English Electric Co., Ltd., and great interest was aroused by the appearance of the new automatic high-level cooker.

British Thomson-Houston Co., Ltd., showed a prototype of a new cradle introduced to simplify the maintenance of combined mercury and tungsten lighting. Invertrunking was used above the stand to support some of the Mazda range of decorative commercial fittings.

Newly designed switches were shown by New-Day Electrical Accessories, Ltd., "Diamond H" Switches, Ltd.,

and Rheostatic Co., Ltd. Robert Mac-laren & Co. introduced their "thermo-time regulator"—a combination of thermostat, time clock and programme cam. This appliance is used for controlling off-peak electric heating systems, since it enables the quantity of heat generated during off-peak periods to be varied in direct proportion to both inside and outside temperature conditions.

Santon, Ltd., showed their new "Monmouth" dual-purpose thermal storage water heater, and Revo Electric Co., Ltd., their "Revo Regent" electric cooker.

APPOINTMENTS

Two Edinburgh architects, Mr. J. L. Gleave, M.A., A.R.S.A., A.R.I.B.A., M.T.P.I., and Mr. W. H. Kininmonth, A.R.S.A., F.R.I.B.A., have been appointed as a panel to advise the Secretary of State for Scotland on the control of building development of Princes Street, Edinburgh. The two members will meet the Edinburgh Planning Committee to discuss the area involved, the broad principles inherent in the situation and the standards whereby applications could be judged. There has been increased anxiety in Edinburgh in recent years over the introduction into the area of modern store buildings, including some of the popular mass-traffic type whose normal frontages contrast sharply with the traditional elegance of Princes Street.

A considerable amount of work is currently in progress here, making it a matter of urgency that some accepted standards are approved for future demolition and reconstruction.

Mr. Richard Sudell, F.I.L.A., has succeeded Mr. James W. R. Adams, O.B.E., P.P.T.P.I. as President of the Institute of Landscape Architects for the session 1955/56.

PARTNERSHIP

With effect from July 1, 1955, Mr. J. W. W. Lyde, A.R.I.B.A., A.A.Dipl., joins Mr. L. A. Culliford, F.R.I.B.A., F.R.I.C.S., A.M.T.P.I., Mr. L. A. Chackett, F.R.I.B.A., F.R.I.C.S., and Mr. Richard Henniker, M.A., F.R.I.B.A., as partner in the firm of L. A. Culliford and Partners, of 47, Essex Street, Strand, London, W.C.2.

In Parliament

Progress in Planning

The House of Lords took a general look at planning on June 29, in a debate which ranged from green belts to congested office premises. Lord Balfour of Burleigh had the satisfaction of obtaining Government concurrence in his motion asking for full use of powers in the Town Development Act to relieve congestion in overcrowded urban areas, and for the establishment of green belts to prevent the further sprawl of large cities.

He put environment, not size, as the first consideration in the quality of a family home. Ninety-five per cent of applicants on housing lists asked for a house and a garden. Flats in multi-storey blocks would always be second best. The worst thing was urbanization of the population. To check it, and then to reduce it, meant encouraging the creation of houses elsewhere. Of the six million houses that would be needed in the next 20 years, half should be in the big towns and half outside them. The aim should be to provide the family ideal home, within touch of the countryside, where the worker could get to his work on a bicycle. The danger was that more and more people would be pushed into flats in the congested areas. As the standard of living went up there would be an increasing demand for more spacious living, people would not be persuaded in sufficient numbers to live in town flats, and there was a danger that within 50 years there would be derelict areas of multi-storey flats. The choice was either dormitory development, cutting into the green belts, or country town development well outside the large towns. The green belts, once established, should be sacrosanct (cheer). Ribbon development and in-filling must be prevented by recourse to and the enforcement of local authorities' planning powers.

Viscount Gage expressed some doubt whether the creation of new towns was reducing congestion in the cities. It was said that as soon as some industries moved out of London new ones moved in. There seemed to be no reduction in the number of offices—indeed, skyscraper office blocks were contemplated—and there was no diminution in traffic.

The Earl of Listowel calculated that after existing council estates and the new towns had taken their share of the surplus population of London there would still be 135,000 people who would have to go into expanded small towns 50 to 100 miles away. Would the Government encourage this, and give up their Olympian detachment to exercise the leadership that was required and expected? If London failed to secure a sufficient number of receiving authorities would the Government approve another new town catering for the County of London?—and he mentioned East Anglia as a possible area. Lord Silkin, taking the oppor-

tunity to reinforce his pleas for clean and fresh thinking on this subject, suggested that the argument between those who wanted to build high and those who wanted to build all over the country was becoming largely academic, because the areas in which it was possible to build in town centres were rapidly being used up. There was a need for a large number of flats, but they were costly to build. That should be a matter for enquiry. He was told that on the Continent flats could be built as cheaply as houses. Why should they cost so much more in this country? There was also a case for enquiry into office building. Were far too many offices being built in London? An endeavour was made to restrict industry, but apparently not to restrict offices. It would be a shocking thing if London became a city of clerical workers, and nothing else. There was some planning control about change of user, but not much control in areas where offices previously existed. Where there was a block of 50 offices before the war, when these were demolished 100 offices went up. That aspect should be examined.

The Earl of Selkirk, Paymaster General, found much encouragement in the measure of agreement that had been established among local authorities. Progress was no longer measured in terms of increased population or higher rateable value, but in the quality of life afforded to the people of big cities. It could be affirmed that the increase in the population of Greater London had been checked. The green-belt of London was assured, and the local authorities were determined to insist on its maintenance. In the provincial cities things were not perhaps so satisfactory. In most cases the appropriate areas were being preserved by administrative action. To define these green belts more clearly in the eyes of the public would strengthen the hands of those who had to administer them; and he offered a personal suggestion that notices stating "This is a green belt," and thus defining them on the ground and not simply on a map, would have a helpful effect. The Government accepted their duty to prevent an unrestricted sprawl. In the past two years 1,700 acres had been retained as green areas as a result of the dismissal of appeals by the Minister, and this figure did not take into account applications for building that had been refused by local authorities.

Re-citing the measures to relieve congestion, he said there were 15 new towns in various stages of construction. In the eight that affected London 25,000 houses had been completed and 163 firms of varying types were in operation; a further 8,000 houses were being built, and 53 factories. The principle that there should not be a system of dormitory suburbs was fundamental. Industry and population must move together, and in this the new towns had been particularly successful. Having discussed the advantages of expanding towns, he said that about 15 to 20 small

towns were considering the possibility of relieving the larger, overcrowded towns. There was no intention of confining this development to any arbitrarily limited number. Two schemes, at Bletchley and Swindon, had already started; there were others in Lancashire; and Manchester and Birmingham were proceeding with negotiations.

On the commercial aspect, he said there was no reason why offices should not be outside the congested areas. The Government had moved some branches from London, and would look for further possibilities. About flats, the real answer was that in congested areas the corporations had to use the ground available for rehousing to the maximum extent. In cities it was virtually impossible to build new houses except in replacement of old ones. But industry should not step in and continue work on the old factory site. There was only one solution—for the local authority to buy up the factory; and to help them to do this the Government were prepared to pay 50 per cent of the loss involved in the transaction. If a man was encouraged to go away he must be allowed value for the premises that had been vacated.

CHANGE OF ADDRESS

Messrs. W. H. Saunders and Son, architects and surveyors, have transferred their Gosport office to 133, High Street, Gosport, Telephone No. 88071, with effect from 27th June, 1955.

Hood, Huggins & York, architects and surveyors, whose main offices were destroyed by enemy action, have recently moved back into London and their address is now 49, Wellington Street, Strand, W.C.2. Telephone Covent Garden 0074 & 5. They would be pleased to receive up-to-date catalogues.

COMING EVENTS

The Architectural Association

July 15 at 3.30 p.m. School's Annual Prize Giving and Exhibition. The prizes will be presented by Sir John Maud, K.C.B., C.B.E., at 36, Bedford Square, W.C.1

The Guild of Surveyors

July 15 at 7 p.m. Film and Lecture by E. S. Shellard on "The Manufacture and Uses of Portland Cement," at the Building Centre, 26, Store Street, W.1.

Royal College of Art

July 8-23. Open Air Exhibition of Sculpture by Students of the Sculpture School, in the Natural History Museum Gardens, Cromwell Road, S.W.7. Weekdays, 10 a.m. to 6 p.m., Sunday, 2.30 p.m. to 6 p.m.

Exhibition

July 11-16. Doncaster and district Building Exhibition at the Technical College, St. George Gate, Doncaster. Monday, 2-9 p.m., Tuesday to Friday, 11 a.m.-9 p.m., Saturday, 11 a.m.-8 p.m. Admission free

Housing Medal Awards

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6



The following awards were made in the private enterprise section:—

1 9 Heath Avenue, Mansfield, Notts. Architect: Henry J. Mein, A.R.I.B.A. Builder: John Harvey.

2 Leeks Hill House, Melton, Woodbridge, East Suffolk. Architect: Sandon & Harding, A/R.I.B.A. Builder: F. Ingram Smith Ltd.

3 Houses in Orchard Close, Ottery St. Mary, Devon. Architect: Antony Lamb, A.R.I.B.A., A.M.T.P.I. Builder: E. Hansford & Son.

4 Linton Lane, Wetherby, Yorks. Architect: H. Bennett, F.R.I.B.A. Builder: L. Garbutt Ltd.

5 Houses in Reddings, Welwyn Garden City, Herts. Architect: Paul Mauger & Partners, F/A.R.I.B.A. Builder: G. Davies & Sons (Bloxbourne) Ltd.

6 72 Gorsey Lane, Cannock, Staffs. Architect: Laurence Williams, F.R.I.B.A. Builder: Darby Bros.

NEWS

Presentation of Housing Awards Postponed

Because of the pressure of Parliamentary business, the presentation by Mr. Duncan Sandys, Minister of Housing and Local Government, of the 1955 Awards for private-enterprise housing and schemes of improvement and conversion has been postponed from Wednesday, July 6, to Wednesday, July 20. The presentation is to be held at 3 p.m. at the headquarters of the Royal Institute of British Architects, 66, Portland Place, W.1.

Joint Contracts Tribunal

On the recommendation of the Joint Consultative Committee of Architects, Quantity Surveyors and Builders, the Royal Institute of British Architects, the Royal Institution of Chartered Surveyors and the National Federation of Building Trades Employers have invited associations of local authorities and the L.C.C. to be represented on the Joint Contracts Tribunal. The Association of Municipal Corporations, the County Councils' Association, the Urban District Councils' Association, the Rural District Councils' Association and the London County Council have all accepted the invitation and a meeting of the reconstituted Tribunal will be held as soon as possible. Its main task will be to review the R.I.B.A. Standard Form of Contract.

Dominican Competition

The following statement has been issued by the R.I.B.A.:

Notice has been received from the Secretary General of the International Union of Architects of an architectural competition being promoted in the Republic of Dominica for the design of a monument commemorating Dr. Rafael Leonidas Trujillo Molina.

The conditions for this competition are at present not such as to conform to the Regulations for International Competitions in Architecture and Town Planning approved by the International Union, and *members and Students R.I.B.A. are accordingly warned not to take part in this competition.*

If, as a result of further negotiation, the conditions are amended to satisfy the requirements of the International Union, a further notice will be published.

Minister of Works Opens Apprenticeship Exhibition

The Minister of Works, the Rt. Hon. Nigel Birch, O.B.E., M.P., opening an exhibition of apprentices' work at the Building Centre, Store Street, London, W.C.1, on Thursday, June 30, said: "Mechanization has taken a lot of the drudgery out of building work. The Ministry's own stand is mainly devoted to the new tools which have been devised for the job, and these tools are giving rise to a new sort of craftsmanship, which

keeps up with an age of machines and new materials. The technical schools and colleges, whose work you are about to see, know all about these new developments. But are all building sites as mechanized as they might be, and are they worthy of the type of boy which the industry must attract if it is to carry out at a proper cost its programme of industrial development and slum clearance? Where youth, as we have been told, is a scarce commodity, out-of-date arrangements will not do.

"Are the industry's apprenticeship arrangements themselves up to date? The technical schools, as the exhibition shows, have taken over some of the work once taught more laboriously on sites. In the next few years a lot more space in technical schools and colleges will be devoted to building, and I have asked my Building Apprenticeship and Training Council to report to me on the whole matter."

The Minister also said: "It is also important to remember when considering the future that building can offer to a lively and ambitious boy what cannot be put on exhibition in a building centre—the opportunities for promotion to foremanship, and to supervisory work leading on to management in the full sense. These, too, are matters which are engaging the attention of the leaders of the industry, and while the present exhibition shows one side of the work which the apprentice tackles, the other aspect of a boy's opportunities should not be forgotten."



The official opening of the British Airways Staff Housing Society's fifth housing project in the London area (Staines Estate, Site 10) was recently carried out by Sir Miles Thomas, Chairman of B.O.A.C., who is also President of the Society. An engraved key, which had been given by the architect of the scheme, Mr. F. Greenwood, A.R.I.B.A., was presented to the tenant of 7, Ensign Close, Mr. G. F. Phipps

Redecoration of the Royal Naval College Chapel, Greenwich



THE Chapel of the Royal Naval College, Greenwich, which was dedicated, in the presence of Queen Elizabeth the Queen Mother, by the Archbishop of Canterbury on June 21, was built as an integral part of the original Hospital by Ripley to designs by Wren. Later it was burned out and reconstructed by James Stuart.

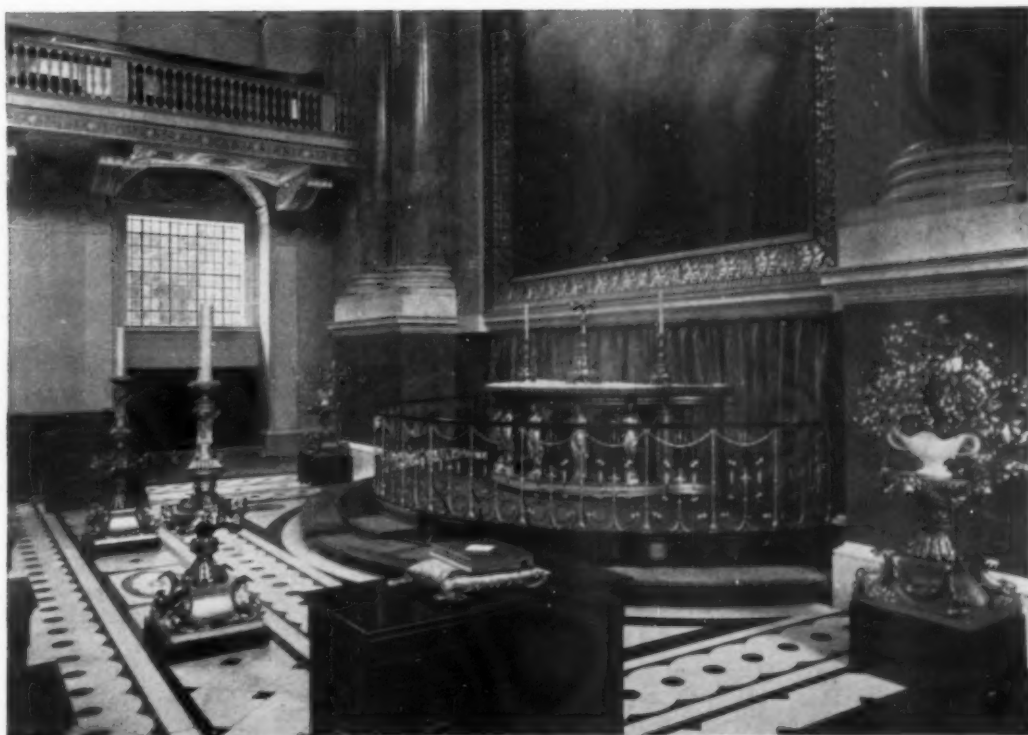
Since the last redecoration some 70 years ago the beauty of its interior has been obscured by accumulations of dirt and grime.

The redecoration was carried out under the direction of the Ministry of Work's Historic Buildings Architects and with the advice of the Inspectorate of Ancient Monuments. It was their objective to restore the interior of the Chapel to its appearance in 1789 after James Stuart had completed his work. The original colour scheme has been recovered by the Ministry's artists stripping successive layers of paint down to the original coats. Colour samples were prepared for the guidance of the contractors.

In addition to the repainting of the plaster work by the contractors, the Ministry's artists have cleaned and restored the two great tympana paintings at the east and west ends and have cleaned the large Benjamin West painting of "The Shipwreck of Saint Paul," the decorative paintings of the Apostles, and the medallions showing scenes from the life of Christ.

The original altar rail, removed when the Chapel was last restored 70 years ago, has been repaired and reinstated.

The opportunity was taken to install a completely new system of lighting. The existing lighting at the time work was put in hand was provided by some rather poor Victorian chandeliers suspended from the ceiling. These have been removed and lighting, designed by the Ministry's engineers, is now provided from concealed fittings which floodlight the ceiling and walls.



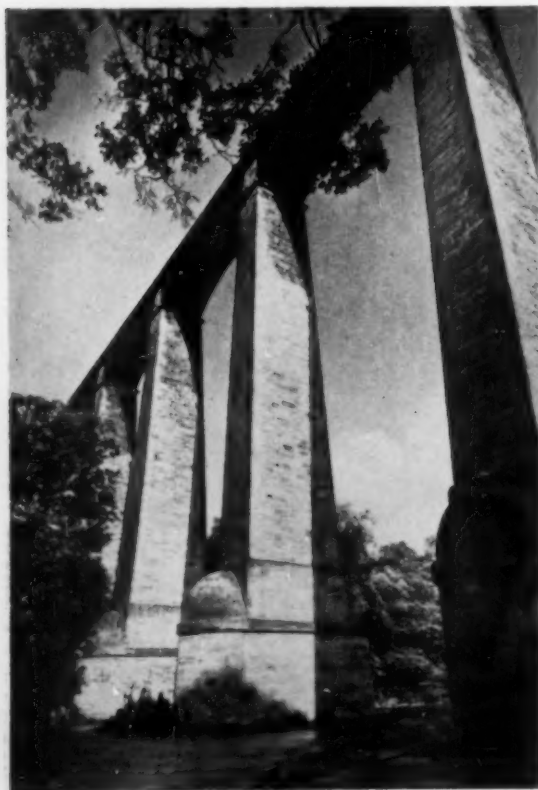


The Future of the Welsh Canal

THE Board of Survey of Canals and Inland Waterways appointed by the British Transport Commission includes among its recommendations the abandonment of 771 miles of inland waterways which are regarded as having insufficient commercial prospects to justify their retention for navigation.*

Illustrated in these photographs is one of those proposed for abandonment, the Welsh section of the Shropshire Union Canal, which is generally regarded, scenically and architecturally, as one of the most

* The Inland Waterways Association have issued an appeal for £25,000 for a campaign against the closure of certain canals.



Above: A typical scene on the Welsh Canal, with two-berth hire cruiser Magician. Left: Pontcysyllte Aqueduct carries the Welsh Section of the Shropshire Union Canal across the Dee valley, 120 feet above the River Dee. Built by Thomas Telford, it consists of cast-iron trough on granite piers, 1,000 feet long.

beautiful and impressive waterways in Great Britain. It was built between 1793 and 1801 by Thomas Telford, originally as a grand scheme to connect the Mersey with the River Severn at Shrewsbury. Planned on an expensive scale, at a time when the canal boom was coming to an end, only a small part of the main line was completed. By the construction of a feeder to the River Dee above Llangollen and the extension of a branch eastwards to join the Chester Canal at Hurleston, through routes were completed from the Midland canal system to Llangollen and the Welshpool Canal to Newton. This last was illegally abandoned in 1938 by the railway company which had acquired it, and is now totally derelict. The route to Llangollen has been abandoned for commercial traffic, but is kept open as a feeder and is still navigable by shallow-draught pleasure craft. Its major engineering works include a tunnel and an aqueduct at Chirk and the famous Pontcysyllte aqueduct, which carries the canal 120ft high over the River Dee in a narrow-cast-iron trough supported on granite piers.

It is probable that if the Board of Survey's recommendations are carried into law this canal will remain as a channel for water supply, but will be closed to navigation and its locks concreted over. Comparatively little extra expense is required to keep it open, and the passage of boats actually assists its function as a feeder by checking the growth of weed. The British Transport Commission's complaint that the compulsory upkeep of such canals is a heavy burden on the working canals is no doubt a just one; but it is to be hoped that means will be found of transferring the administration of these waterways to a body which is not solely concerned with commercial transport, but which also has some responsibility for the enrichment of leisure and the preservation of beauty.

JOHN MCCANN

Photographs by John and June McCann



HOTEL LEOFRIC. COVENTRY

architects: W. S. HATTRELL & PARTNERS

in collaboration with

W. J. WITHAM, A.R.I.B.A.,

chief architect, Ind Coope & Allsopp, Ltd.

THE Clients, Messrs. Ravenscroft Properties, Ltd., wished to develop the site with two-storey shop units, preferably ground floor and basement, on the Precinct, Broadgate and Cross Cheaping frontages. They required the remainder of the building to accommodate an Hotel of approximately 100 bedrooms. The tenants for the Hotel are Messrs. Ind Coope & Allsopp, Ltd., whose separate requirements were for approximately 100 guest bedrooms, public rooms, a ballroom suite and separate additional licensed accommodation at lower ground floor level comprising Bars, Smoke Room, Lounge and Restaurant.

Sketch plans were started June, 1953. Working drawings finalized March, 1954, with the exception of minor alterations which were covered by detail drawings as job proceeded. Half-inch details were prepared as work pro-

ceeded. Work commenced in November, 1953, and completion was in April, 1955.

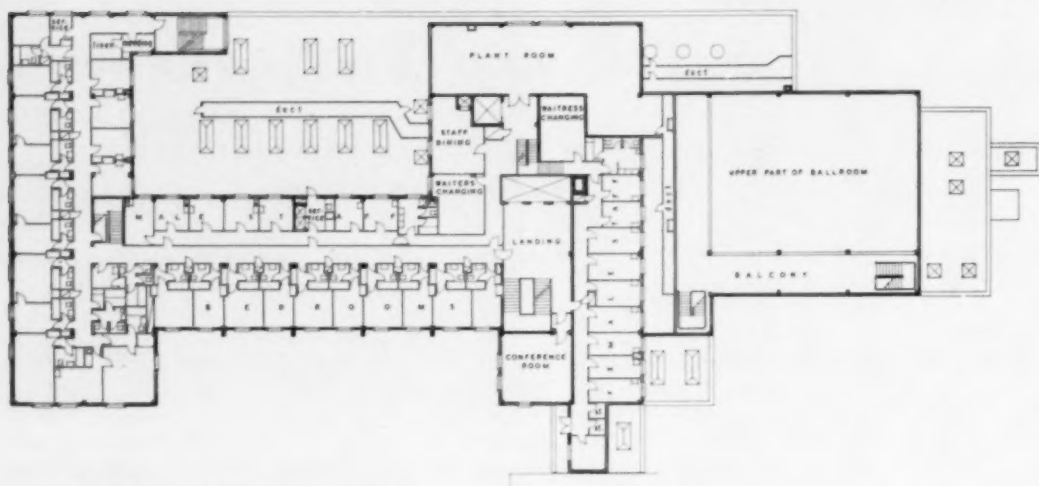
The site is on the western side of Broadgate, with its southern end forming one side of the head of the new shopping Precinct. A large car park is planned immediately to the north-west of the site; there is a 20ft covered pedestrian way between the lower half of the eastern boundary of the site, and the new Owen Owen store.

Quite apart from the site factors and the accommodation requirements the Planning and Redevelopment Committee severely restricted the free use of the site by requiring the Broadgate and Precinct elevations to repeat exactly those of Broadgate House, and although some deviation in the type of window to be used in certain positions was later

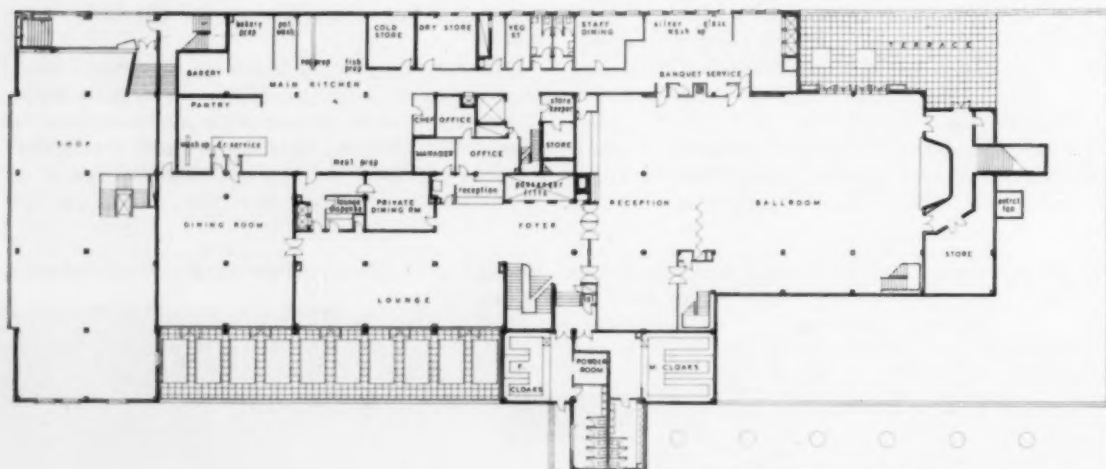
(Continued on page 13)

The front of the hotel from the centre of Broadgate Garden. Hotel cost £800,000 to build and equip. Of 108 bedrooms, 70 per cent have their own bathroom





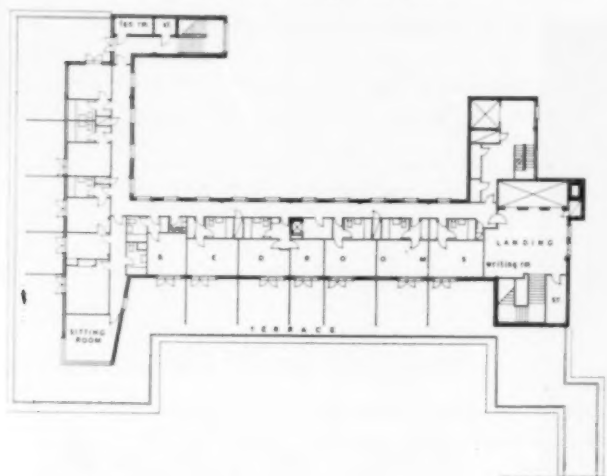
SECOND FLOOR



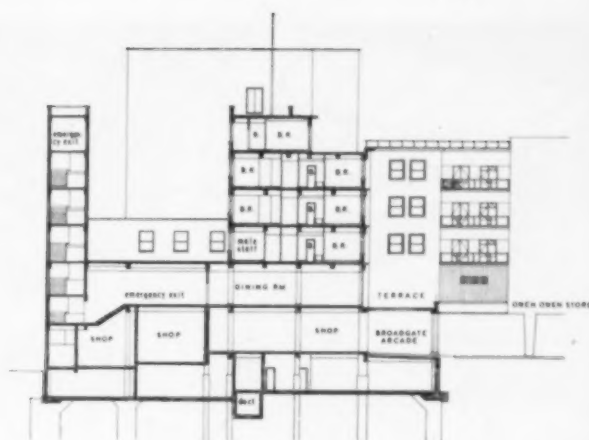
FIRST FLOOR



GROUND FLOOR



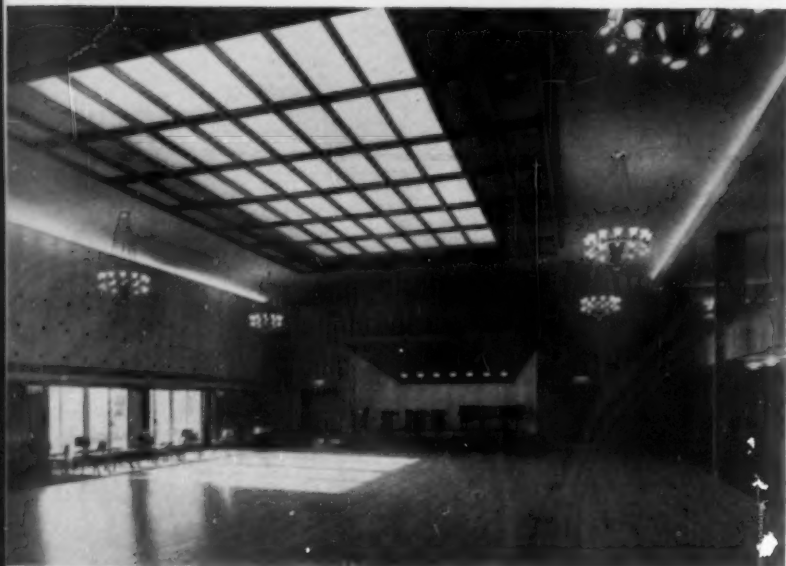
PENTHOUSE PLAN



SECTION A-A

The precinct butterfly bar which can be entered either from Coventry's precinct shopping centre or from the hotel. Designed for counter or waiter service, the room has no windows. The counter front is bamboo: timber is black bean or pine. Colours: black and red cork tile floor; red upholstery; green plastic wall panels and table tops





W. S. Hattrell & Partners

1 Assistant-in-charge:
G. W. Hammond

Assistants: F. R. Mutch; J. Siedlecki;
J. A. Metcalf; R. E. Eckersley

W. J. Witham's assistants:
A. G. Drew; B. R. Davis;
D. M. Rickard; R. L. G. Carter

Quantity Surveyors:
Burley, Lane & Partners

General Contractors & Consultants
for R.C. frame and services:
Sir Robert McAlpine & Sons, Ltd.

Sub-contractors:

Acoustic Tile Ceilings: H. W. Cullum & Co., Ltd.
Artificial Stone: The Empire Stone Co., Ltd. Asphalt:
Ragusa Asphalt Paving Co., Ltd. Balustrading: Bayliss
Jones & Bayliss, Ltd. Boilers: Matthew Hall & Co., Ltd.
Bricks: Blockleys, Ltd. Carpets: S. J. Stockwell (Carpets),
Ltd.; Hugh Mackay & Co., Ltd.; T. F. Firth & Sons,
Ltd. Casements: James Gibbons, Ltd.; Stelwin Construc-
tion, Ltd. Central Heating: Matthew Hall & Co., Ltd.
Clocks: International Business Machines. Dampcourses:
Aitinda. Decorative Plaster: Clark & Fenn, Ltd. Door
Furniture: James Gibbons, Ltd. Electricity Supply: East
Midlands Electricity Board. Electric Light Fixtures:
Troughton & Young, Ltd. Electric Wiring: Troughton
& Young, Ltd. Furniture: Buoyant Upholstery Co.,
Ltd.; Convan Furniture, Ltd.; Kingfisher, Ltd.;
L. M. Furniture, Ltd.; Loughborough Cabinet Co. Gas
Supply: West Midlands Gas Board. Gas Fitting:
Matthew Hall & Co., Ltd. Glass (Coventry),
Ltd. Hotel Fittings: Gaskell & Chambers, Ltd.; Harris
& Sheldon, Ltd.; Heals Contracts, Ltd. Joinery: Samuel
Elliot & Sons, Ltd.; Gaskell & Chambers, Ltd.;
Gliksten Doors, Ltd.; Harris & Sheldon, Ltd.; Heals
Contracts, Ltd.; Shapland & Petter, Ltd. Kitchen
Equipment: Carron Company. Kitchen Ventilating
Hoods: Westwood & Co. Laundry Equipment: Man-
more Allott & Co., Ltd.; Lifts: Waygood-Otis, Ltd.
Marble: C. S. Ormerod, Ltd. Metalwork: Harris &
Sheldon, Ltd. Meteorological Instruments: Negretti
& Zambra, Ltd. Paint: Leyland Paint & Varnish Co.,
Ltd. Pavement Lights: J. A. King & Co., Ltd. Patent
Flooring: Coventry Tile Co., Ltd.; Korkoid Decorative
Floors; Francis Morton & Co., Ltd. Patent Glazing:
Standard Patent Glazing Co., Ltd. Plaster: Clark & Fenn,
Ltd.; Southern Counties. Plumbing: J. S. Wright & Co.,
Ltd. Pneumatic Tube System: Dart Cash Carrier
Co., Ltd. Reinforced Concrete: Sir Robert McAlpine &
Sons, Ltd. Radio and Paging System: Trux Electrical, Ltd.
Refrigeration: J. & E. Hall, Ltd. Roller Shutters: Den-
nison Kett & Co., Ltd. Roofings: Ragusa Asphalt
Paving Co., Ltd.; Eversal Products, Ltd. Roofing
Felt: Ragusa Asphalt Paving Co., Ltd. Sanitary Fittings:
Sorby & Foster. Stairtreads: Ferodo, Ltd. Signs: Old-
ham Sign Service, Ltd. Silver Grill: Benham & Sons,
Ltd. Sliding Folding Screens: Esavian, Ltd. Stone:
Horton Quarries, Ltd.; C. S. Ormerod, Ltd. Steel Deck-
ing Roof: D. Anderson & Son, Ltd. Stonework: C. S.
Ormerod, Ltd. Structural Steel: Somerville Barnard
Construction Co. Sunblinds: London Blinds. Suspended
Insulation Board Ceilings: Peters Contractors, Ltd.
Telephones: Standard Telephone Co., Ltd. Television
Service: E.M.I. Sales & Service, Ltd. Tiling: Coventry
Tile Co., Ltd. Terrazzo: Art Pavements & Decorations,
Ltd. Tiles: Coventry Tile Co., Ltd. Ventilation:
Matthew Hall & Co., Ltd. Water Softening Plant:
Permutit Co., Ltd. Water Supply: J. S. Wright & Co.,
Ltd. Weatherproofing Material: Ragusa Asphalt Paving
Co., Ltd. Woodblock Flooring: Horsley Smith & Co.
(Hayes), Ltd. Window Furniture: James Gibbons, Ltd.;
Stelwin Construction Ltd.

1 The ballroom and banqueting hall on the
first floor will seat 500 diners or accommo-
date 300 dancing couples

2 French restaurant first floor. As in all
the hotel's restaurants, telephones can be
plugged to wall sockets and made to reach
every table in the room

3 The Silver Grill on ground floor which
seats more than 100 diners

Hotel Leofric, Coventry

Continued from page 9

permitted, the main structural grid layout, floor to floor heights, plan set backs and facing materials had to be repeated.

The building comprises two separate entities: a hotel, including The White Lion, and two shops.

Construction: Notes

A reinforced concrete frame was used for the structure with *in situ* concrete floors, staircases and roofs for economy and speed of erection. Cladding and internal walls are brick. The design provides for an extension at the north-west corner to allow additional bedrooms to be added later.

Load Bearing Element. *In situ* reinforced concrete frame throughout building. Beam Spans: 20ft 8in and 23ft 6in. Column Grid: 20ft 8in × 23ft 6in generally; 20ft 8in × 20ft and 23ft 6in × 17ft on bedroom floors.

Foundations. Mass concrete throughout. Sub-Soil: Sandstone, depth 10ft.

Outer Wall Type. 11in cavity brickwork generally; cavity brick faced with slab (1½in Travertine and West-

morland slate on columns) on the Broadgate façade with Blockley City Mixture facing bricks.

Roofs. *In situ* concrete generally and steel decking on steel trusses over ballroom. Finish: three-layer bituminous felt or cement tile paving.

Floor Structure. *In situ* concrete throughout building finished as follows: Screeding for carpet, Korkoid, Marley tiles, maple strip, terrazzo tiles, quarry tiles.

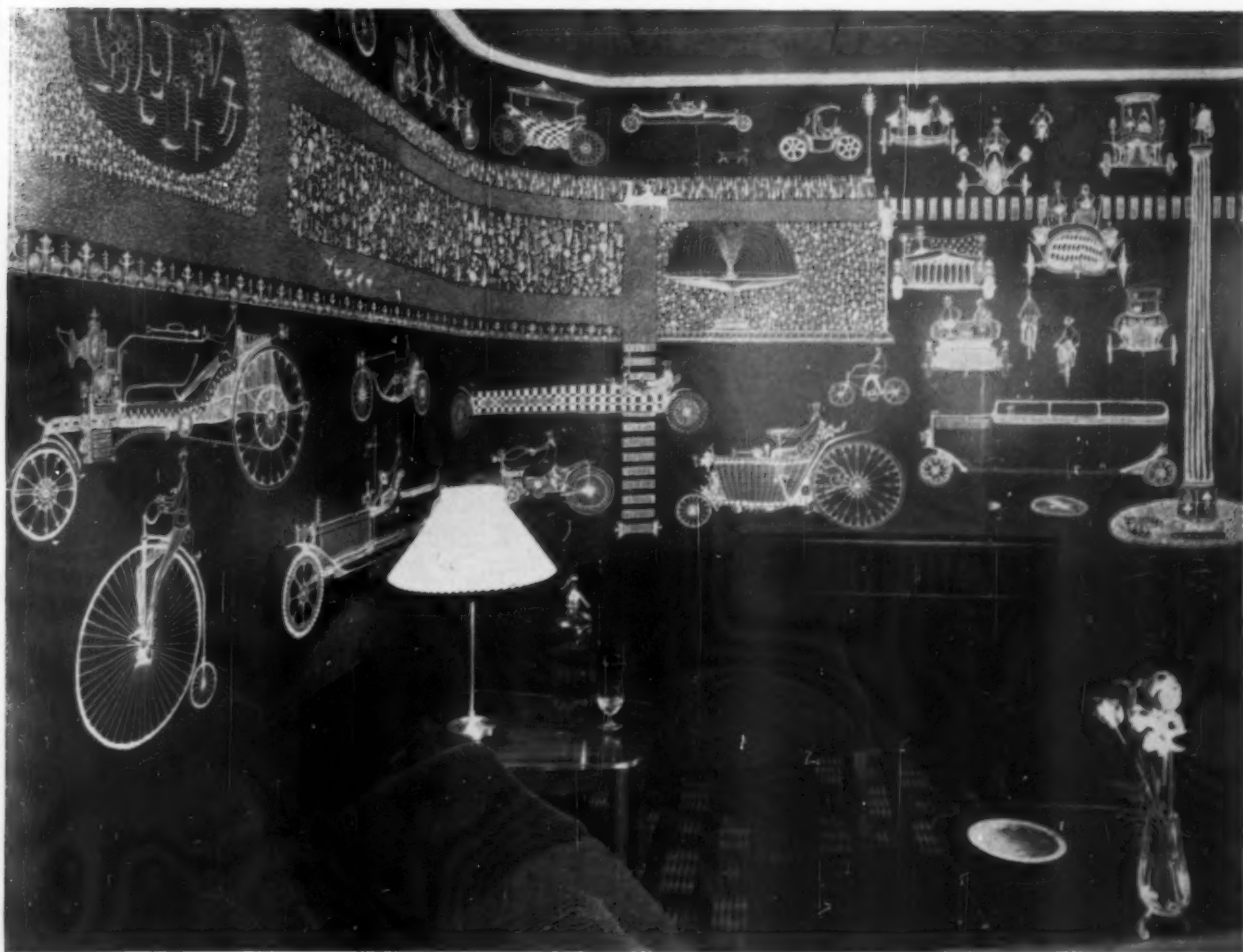
Internal Walls. 9in brick for main partitions; 4½in for subsidiary partitions and brick on edge between bedrooms. Finishes: Plaster, timber panelling, tile or vitrolite lining.

Brick on edge was used between bedrooms to save cost and to obviate plaster cracking such as has been experienced with breeze partitions and yet give a satisfactory sound insulation.

Ceilings. Plaster on expanded metal lathing generally; plaster on concrete in shops and service areas; insulation board in ballroom; acoustic tiles in grill room and ballroom reception; Frenger panels in foyer; fibrous plaster

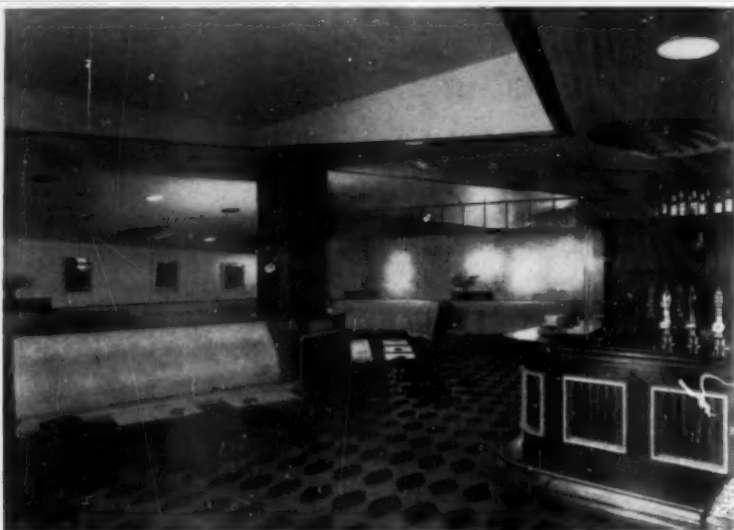
[Continued on page 15]

A corner of the ground floor cocktail bar. The mural is by Guy Egan, a New Zealander, and represents a fantasy on Broadgate, the main square of the City



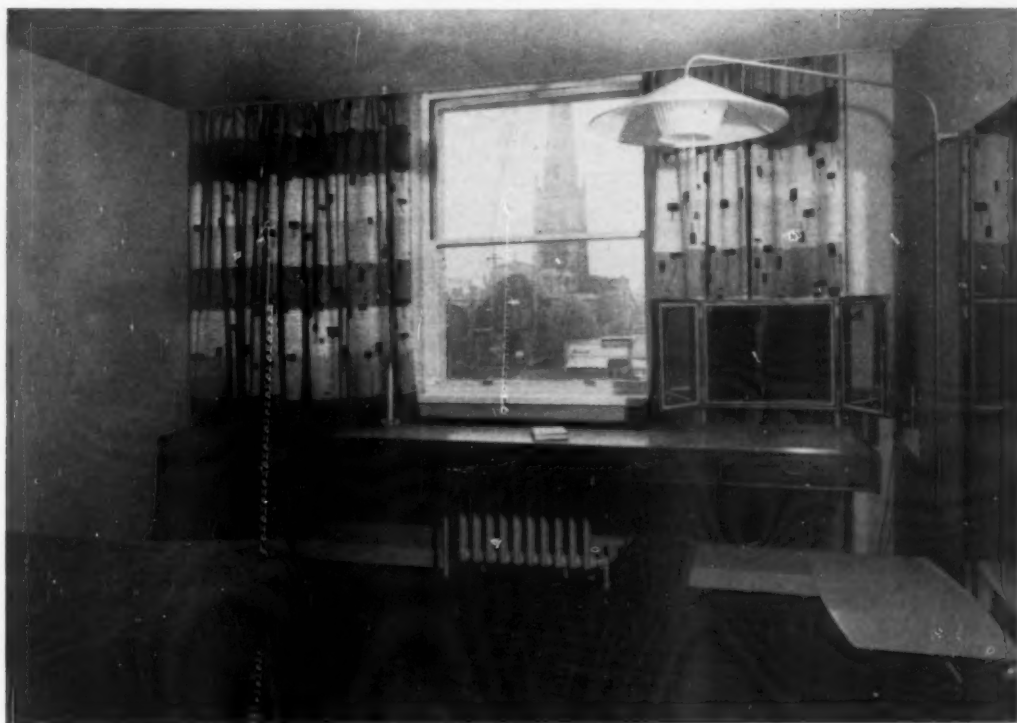


For more than 400 years there has been a "White Lion" public house in Coventry. The new one has been incorporated in the Leofric block because the site of the old one was required for redevelopment



Above, the lounge bar. Below, the public bar. Noteworthy features are the brass spiral on the bar counter, traditionally decorated beer-engine handles and imitation boarded floor





Hotel Leofric, Coventry

Continued from page 13

in snack bar. Finishes: Emulsion or gloss paint or wall-paper.

Artificial Lighting

Generally tungsten lighting is used throughout and the source of light is not hidden but shaded according to requirements. The lighting in the bedrooms is designed to provide a restful atmosphere and the lighting in public rooms and especially drinking rooms is concentrated in pools or splashes of high intensity where it is required for use or to give visual effect.

Bedroom Lighting

Each bedroom has a spun brass reflector on a knuckle joint over the bed, and a large adjustable wall bracket fitting designed to move over the dressing table or over the armchair as required. A panel in the bedside cabinet controls all bedroom and lobby lights, the call system and radio.

Heating and Ventilation

Ten major fan sets of centrifugal cased type are employed and eight have speed control. The total capacity, supply and extract, is approximately 135,000 cu ft/min. The plant is located in the second floor plant room and gives air changes per hour: public rooms, 12; ballroom, 8; kitchen, 30; laundry, 23; lavatories and baths, 6.

Typical bedroom with 7ft 6in long dressing table unit cantilevered from the wall so that curtains can be drawn behind. The design of the curtain fabric is by Lucienne Day

Boilers for central heating, hot water service and heating batteries to ventilation system are, three Beeston No. 12BR "Brigadeer" cast iron sectional oil-fired boilers, each rated at 2,741,200 B.T.U./hr, using 200 seconds oil and automatic firing. For supplying steam to laundry and kitchen: one vertical steam boiler with evaporative capacity of 950 lb/hr at 120 lb/sq in. Total heat load 7,000,000 B.T.U./hr. Building is in a smokeless zone and electricity or gas was considered too expensive.

Services

Water Storage. Two water to water vertical calorifiers each 1,000 gallons sited in heating chamber and supplied from main boilers.

Pipes and Jointing Types. Mild Steel Class B and C. Flanged joints on pipes of 2½in bore and over, unions on smaller pipes. Domestic hot water and cold water generally in copper with union joints.

Cold Water Storage. Cast iron tanks located in sixth floor tank room. Capacity: 3,000 gallons hard; 3,000 gallons soft; 1,000 gallons for flushing valves.

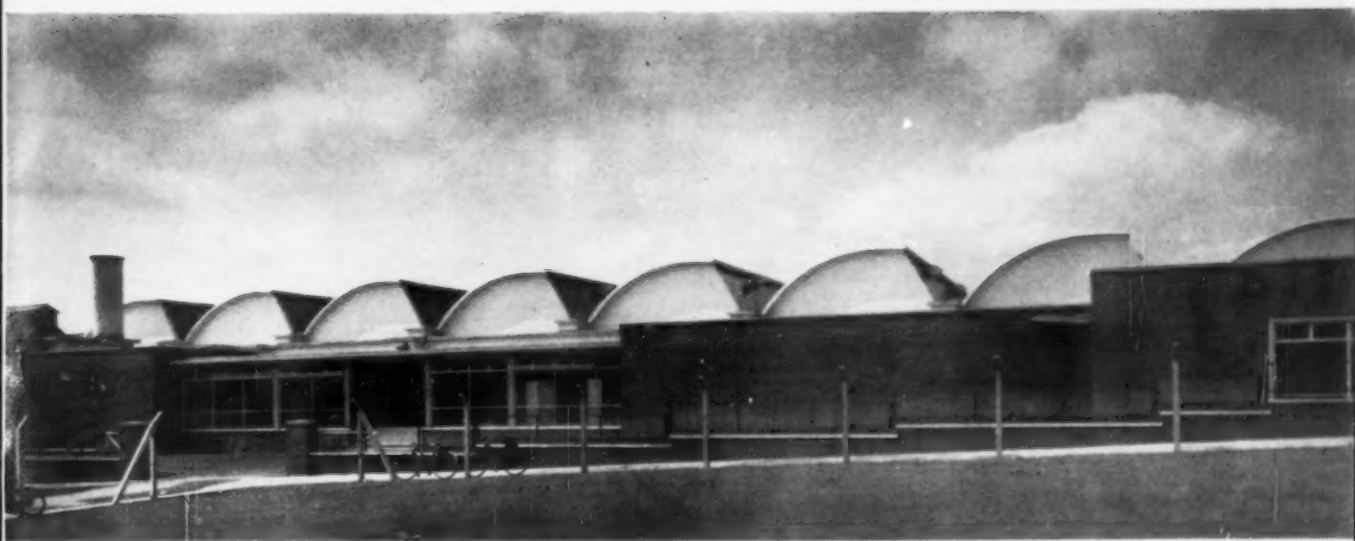
Lifts. Three passenger lifts off central foyer; one goods lift off service area; eight food lifts. Capacity/speed: 2,000lb 300 ft/min; 3,500lb 150 ft/min; 2 and 3cwt 110 ft/min respectively.



Hotel lounge on first-floor.
Showcases on left will
contain special displays
required by the client

Hotel Leofric, Coventry

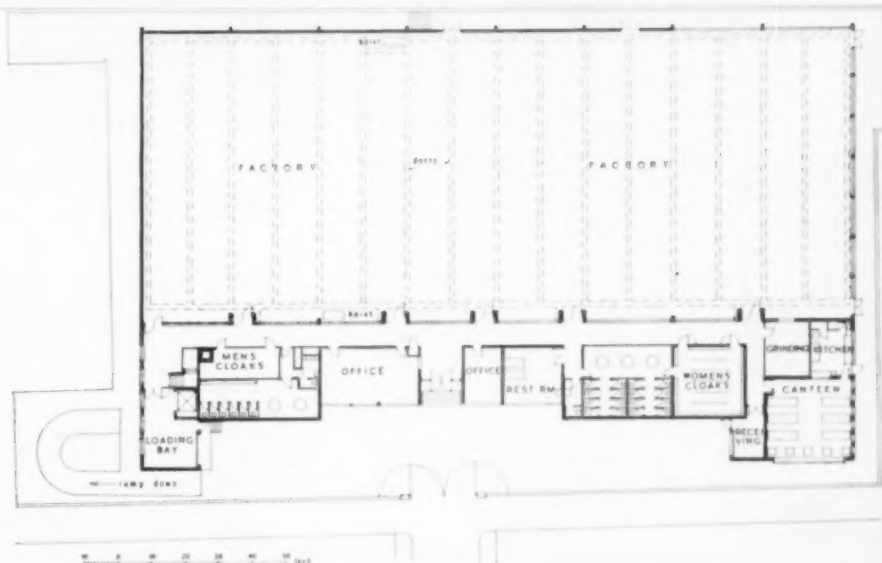




SHOE FACTORY AT LOWESTOFT

architects :
BUCKINGHAM
& BERRY

partner-in-charge :
J. BAILLIE NOBLE,
A.R.I.B.A.



ONE of the chief aims of the directors of Bally's Shoe Factories (Norwich) Ltd., was that future maintenance costs should be low and their conditions required some method of roof construction giving maximum penetration of natural light; a high artificial light reflecting value; minimum maintenance and no dust-collecting ledges.

Because of these conditions and to take due account of a sloping site, a two-storey type of building was finally decided upon, in which the main work space, cloakrooms, lavatories, canteen, rest room and offices were placed on the ground floor, and a secondary work space, heating chambers and switchrooms planned at basement level. The two floors are connected by a ramp externally and by a lift, electric goods hoists and staircase internally.

Construction

The type of construction adopted comprises reinforced concrete framework and a post-tensioned barrel-vault

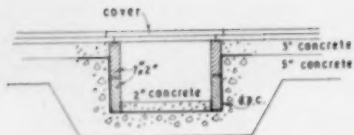
concrete roof with North lights, in eight bays each of 86 foot span over the main work space giving a completely clear floor area in the work space of some 18,500 square feet. The basement work space has an area of some 7,000 square feet.

The end "Gables" of each barrel-vault are of 9-inch reinforced concrete and act as stiffening beams to the barrel-vaults, whilst the 2½-inches thick (average) concrete barrels and the main 86-foot beams are reinforced by steel cables post-tensioned using the Gifford-Udall system.

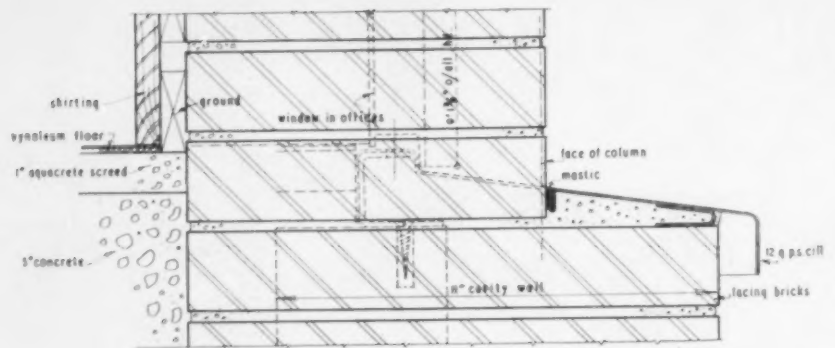
There are sixteen cables to each vault and each cable was made up of twelve ¼-inch wires each of which was post-tensioned to a predetermined value by means of calibrated hydraulic jacks.

On top of the barrel-vault there is one layer bituminous felt; one ½ in layer Celotex insulating boarding and three layers bituminous felt, the outer layer having white-spar finish to afford some light reflection through North lights. The barrel-vault soffit is plastered with "Carlite"

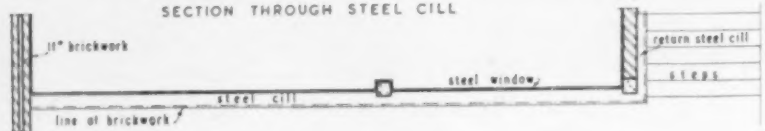
Shoe Factory, Lowestoft



SECTION THROUGH DUCT



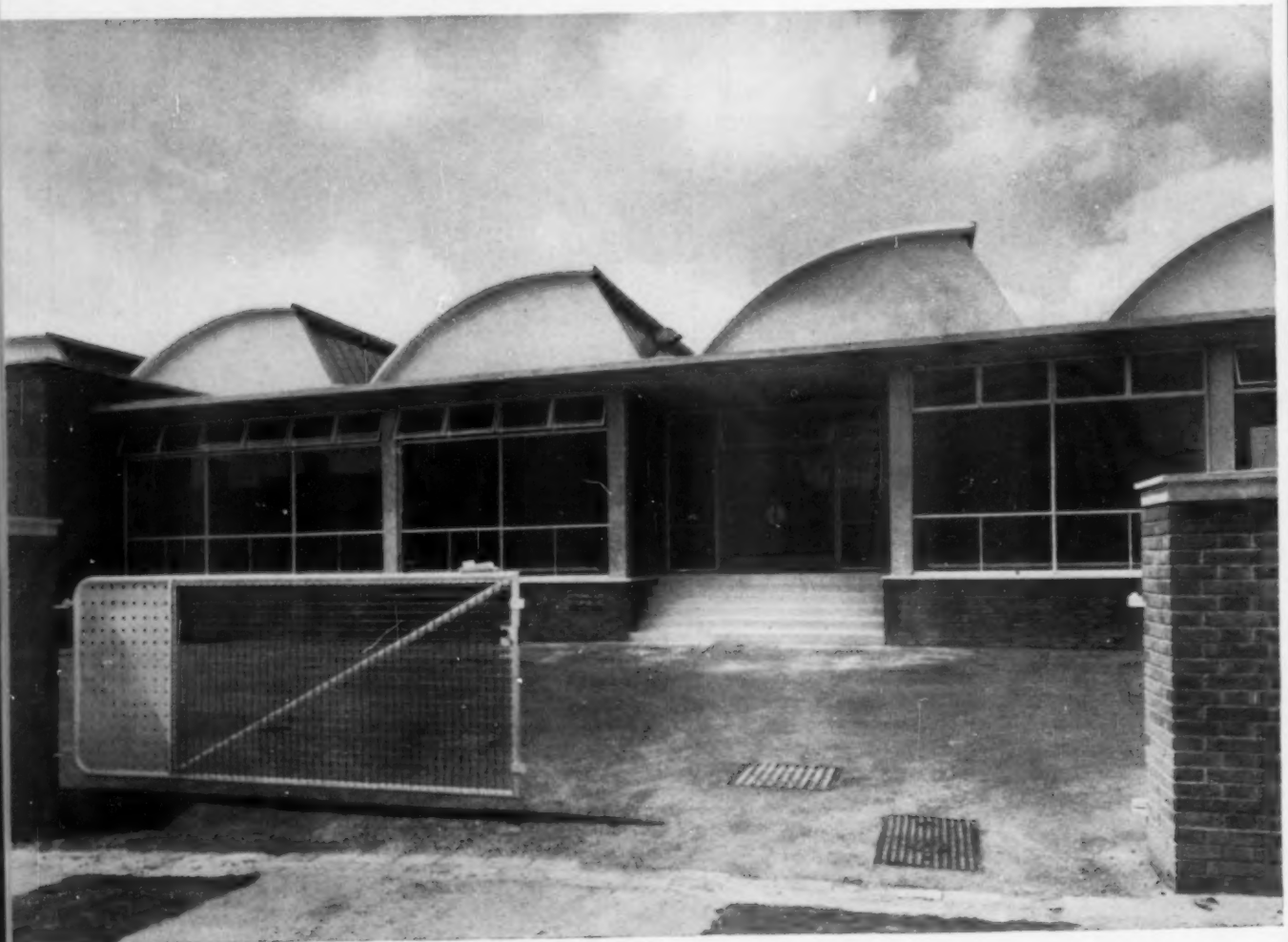
SECTION THROUGH STEEL CILL



PLAN

QUARTER FULL SIZE AND EIGHTH SCALE DETAILS
OFFICE BLOCK WINDOWS

Main entrance



vermiculite insulating plaster and decorated with emulsion paint.

Services

An extensive system of Plenum air-conditioning is installed which is designed to maintain a stipulated average temperature condition within the factory together with a required relative humidity. Electric power, gas and compressed-air services are contained in 14in \times 8in floor ducts fitted with removable covers. These ducts are positioned thirteen feet apart throughout the work space area in order to afford flexibility in shoe machinery layout.

Cost

The cost of the column bases, columns, beams, barrels and post-tensioning works out at approximately 23s 6d per super foot of relevant floor area and this figure increases to approximately 26s 9d when 3-ply bituminous roofing, insulation and double-glazed North lights are included.

General Contractor :

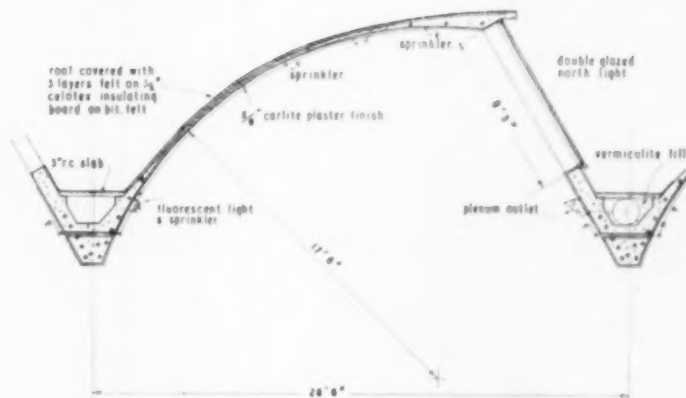
R. G. Carter, Ltd.

Sub-contractors :

Artificial Stone: R. G. Carter, Ltd.
Asphalt Flooring: Limmer & Trinidad Lake Asphalt Co., Ltd. Bricks (Facing): The Charnwood Forest Brick & Tile Works, Ltd.
Clockroom Fittings: Barnes & Pye (Norwich), Ltd.
Electrical Installations: Eastern Electricity Board (main contract); Electrical Equipment Co. (Leicester), Ltd.; Uni-Tubes, Ltd. (Ducting); Electrical Ventilation Fans: Greenwood's & Airvac Ventilating Co., Ltd.
Fencing (Boundary): Barnes & Pye (Norwich), Ltd.
Felt Roofing: Bond & Lacey (Norwich), Ltd.
Floor Covering to Offices ("Vynolium"): The Adamite Co., Ltd.
Flue Linings ("Fosasil"): Motor Products, Ltd.
Gas Insulators: Southalls (Birmingham), Ltd.
Gas Installation: Eastern Gas Board.
Glasses: T. & W. Ide, Ltd.
Glazed Cement Wall Finishes: John Ellis & Sons, Ltd. (Bristol).
Glazing and Northlights: W. H. Heywood & Co., Ltd.
Hardwood Duct Covers: Vigers Bros., Ltd.
Hardwood Floors: Hollis Bros., Ltd.; Vigers Bros., Ltd.
Heating and Ventilation: Keith Blackman, Ltd.; A. Park & Son, Ltd.
Insulation and Timbering: Bond & Lacey (Norwich), Ltd.
Ironmongery: R. Cartwright & Co., Ltd.; Cornyn Ching & Co., Ltd.; James Gibbons, Ltd.; Nicholls & Clarke.
Joinery: R. G. Carter, Ltd.
Lift: The Express Lift Co., Ltd.
Lighting Fittings: Crompton Parkinson, Ltd. (Fluorescent Lighting); George Forrest & Son, Ltd.
Metal-faced Doors: R. G. Carter, Ltd.
Plaster: Crotch & Sons (Norwich).
Plumbing and Drainage: W. J. & F. Taylor (Norwich).
Ltd.
Post-Tensioning: R. G. Carter, Ltd.
Sanitary Fittings: Adams, Ltd.
Sprinkler Installation: Mather & Platt, Ltd.
Steel Reinforcement: Twistel Reinforcement, Ltd.
Steel Rolling Shutters: Arthur L. Gibson & Co., Ltd.
Steel Balustrading: S. T. Cowell & Sons (Norwich), Ltd.
Terrazzo Paving: Diespeker & Co., Ltd.
Toilet Cubicles (Roofers): Williams & Williams, Ltd.
Windows (Metal): Williams & Williams, Ltd.
Window Opening Gear: Teleflex Products, Ltd.

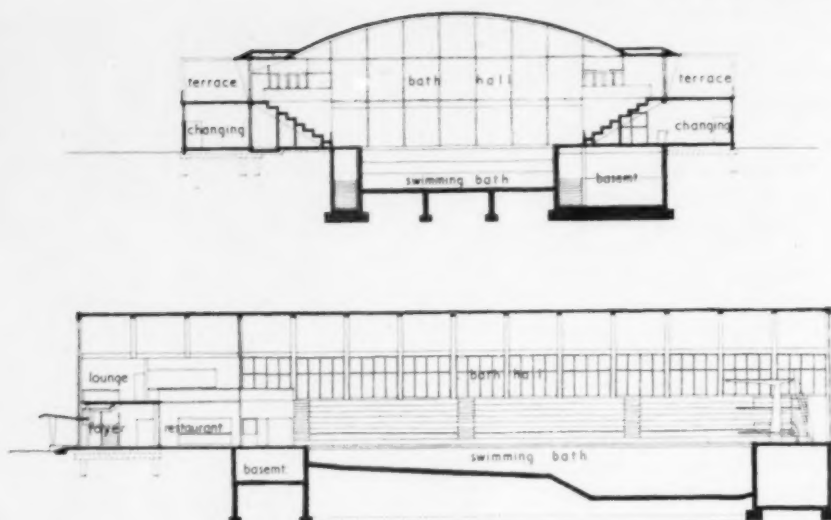


General view, factory area



CROSS-SECTION THROUGH ONE BAY OF ROOF. Scale: 1in=8ft.
THE GENERAL CONTRACTOR CARRIED OUT ALL THE PRESTRESSING

Proposed Swimming Baths for Wythenshawe



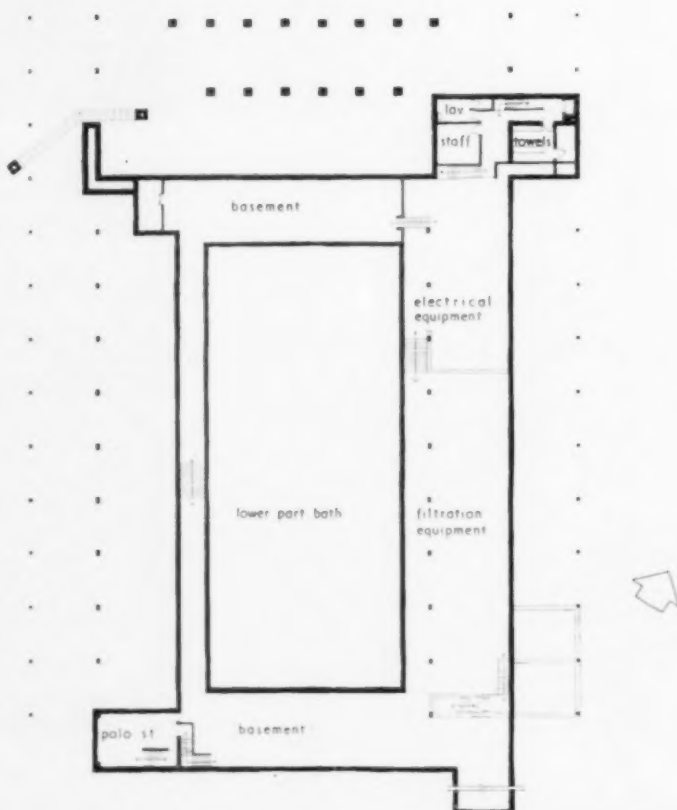
PLANS AND SECTIONS
SCALE: 1 in equals 40 ft

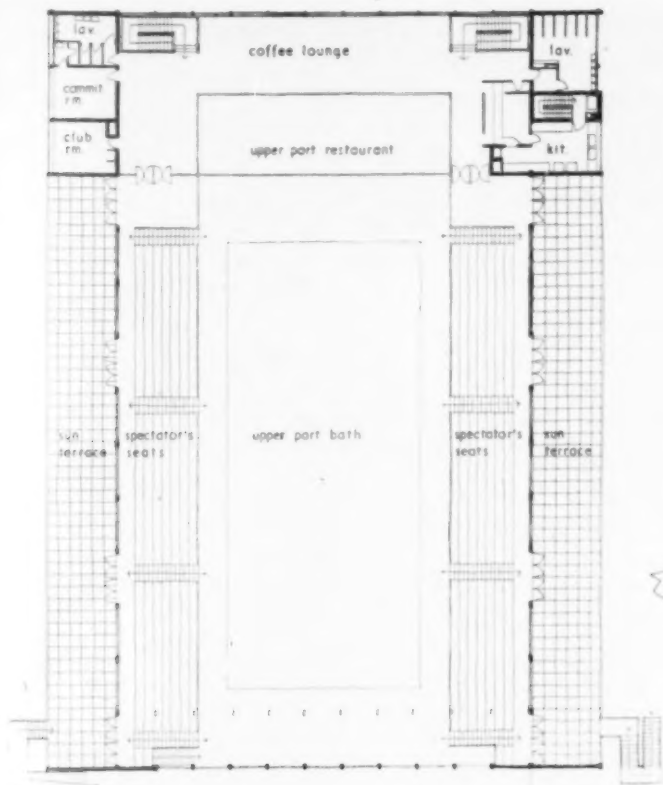
THE bath is entered by means of a spacious Hall which runs the full width of the building. Immediately behind the Entrance Hall the Café is sited from which a complete view of the Bath Hall is obtained through a glass curtain wall. (See page 22).

Dressing accommodation for bathers is directly accessible from the Entrance Hall and it will be noted that in this respect advantage has been taken of the space immediately below the two terraces of permanent seating which run the full length of each of the two longer sides of the Bath Hall. Permanent seating is provided on these two terraces for approximately 1,100 spectators and this can be increased by a further 150 by placing one row of chairs in front of each bank of permanent seats. A total of 1,250 spectators.

140 dressing cubicles are provided for use in conjunction with the "Hy-Gard-All" clothing storage system in addition to the space allocated for the use of school children.

Staircases lead off the Entrance Hall to the spectators' seating, Committee Room, Club Room, Promenade Lounge, Kitchen and Toilets all of which are sited at first floor level. The kitchen is served by means of a goods lift and separate staircase connected with the Staff Entrance on the east side of the building.



**LEONARD C. HOWITT,**

B.Arch., Dip.T.P., D.P.A., F.R.I.B.A., M.T.P.I.

City Architect, Manchester

A large area of the end wall of the Bath Hall, which faces south, will be in double glazed glass curtain walling and will have large opening doors which will open out on to the lawn at rear for use on very hot days.

The plan, in addition to providing the necessary spectators' seating, has been designed to give as flexible a layout as possible and ensure the maximum ease in controlling the public and at the same time providing all the amenities desired by the bathers.

The glass screen between the Café and the Bath Hall will be designed to open, thus allowing the whole of the Café area to be thrown into the Bath Hall, if so desired, on special gala nights.

The pool is 110ft long by 48ft and the walls of the hall and ceilings, etc., will be acoustically treated. Three fixed diving boards, 1, 3 and 5 metres in height respectively, and two spring boards, 1 metre and 3 metres high, are included. The pool falls in depth from 3ft 3in to 12ft.

Estimated cost, £261,844.

Construction**Bath Hall**

Reinforced concrete ribs at 13ft 4in centres spanning the Bath Hall, precast concrete units to ceiling between ribs.

Reinforced concrete terracing to form seating.

Reinforced concrete walls to plunge.

Side walls glazed.

End walls glazed between concrete mullions.

Basement

Reinforced concrete walls and floor, etc.

Entrance Hall—Café Area

Reinforced concrete structure generally.

End wall glazed between concrete mullions.

Glazed screen between Café and Bath Hall. Curtain walling to two-storey section on side elevations.

Changing Rooms

Prefabricated timber panels between concrete mullions to outside wall.

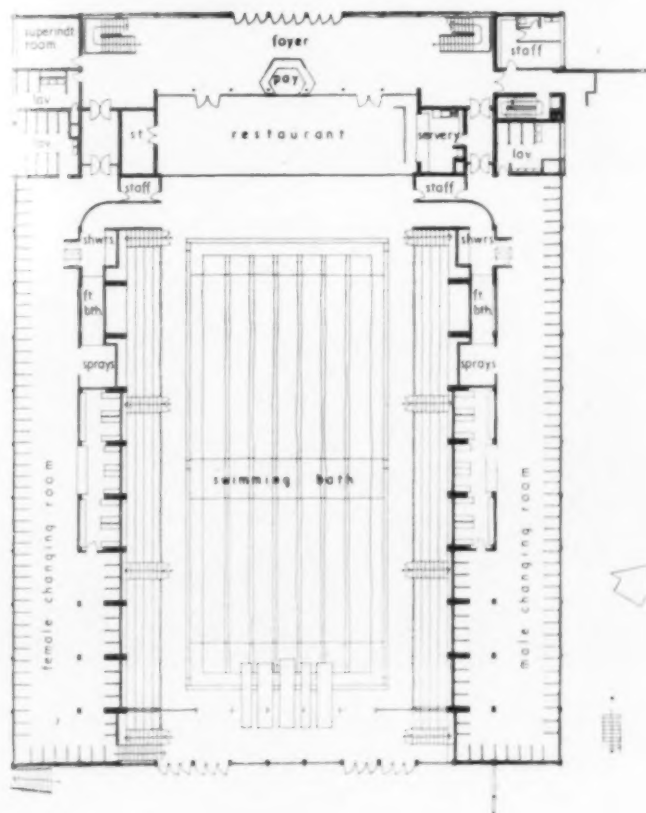
Concrete floor and ceiling.

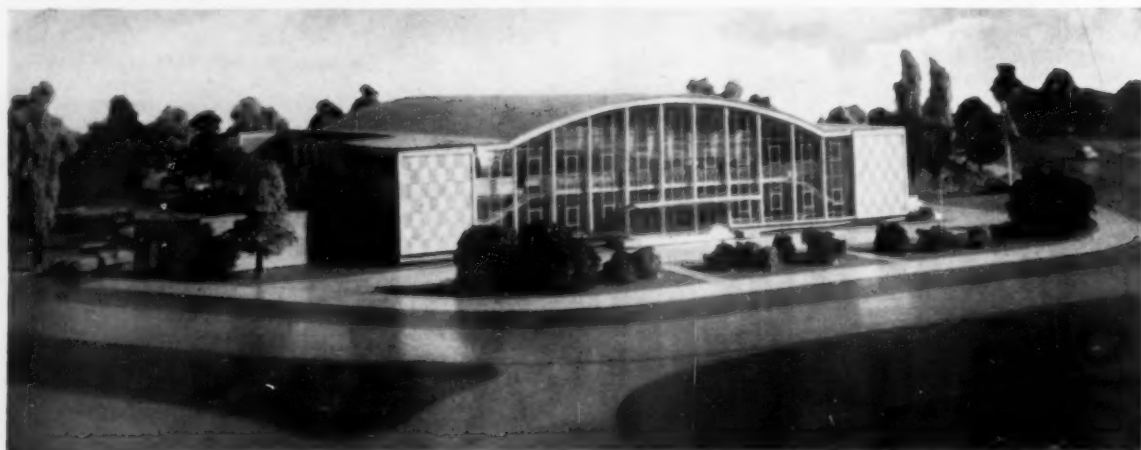
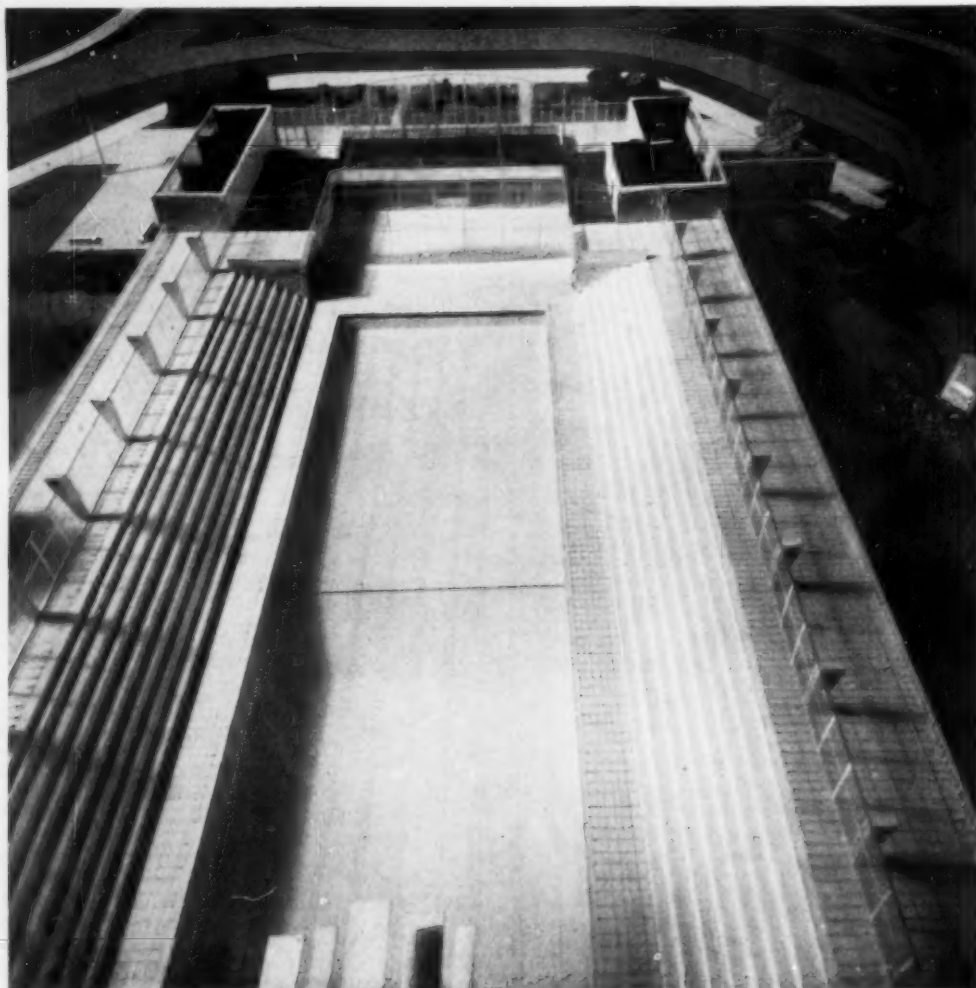
Superintendent's House

Brick walls.

Concrete floor.

Tiled roof.





model of proposed Swimming Baths, Wythenshawe
ARCHITECT: LEONARD C. HOWITT, CITY ARCHITECT, MANCHESTER

THE LAW OF BUILDING CONTRACTS

VIII. Security Against Risks

By GILES BEST

THE theme of this article is the problem of security for both employer and contractor against the risk that either party may go bankrupt during the course of the contract and the risk that the works may be damaged by fire. Both the R.I.B.A. standard form of contract and the C.C.C./Wks/1 Government Contract approach the problem of bankruptcy on the same lines and attempt to give the same type of protection to the employer. The R.I.B.A. contract in addition provides for the bankruptcy of the employer and attempts to protect the contractor.

A building contractor's position in the event of his employer's bankruptcy differs noticeably from that of a person under a contract to make goods. If a buyer orders a car from a dealer but refuses or is unable to accept delivery of the car at the time fixed, the dealer has what is called a lien over the car. Put simply, this means that he has the right to resell the car to another person and so partially recoup his losses, though his right to sue the defaulting buyer for breach of contract remains. In other cases persons doing repair work to goods may have a lien on the goods for the value of the work done, and may be able to refuse to redeliver the goods until their charges have been paid. A building contractor has no lien of this sort. The rule in English law is that as soon as something has been fixed to the ground or to a building it becomes the property of the owner of the ground or building, unless it was never intended to become a permanent fixture. Thus a builder has no right to sell or take away building materials that have been fixed in a building, and of course he has no right to sell a house he has built in order to recover the price from the owner. This disadvantage becomes most apparent if an employer becomes bankrupt. If a person goes bankrupt his assets are shared round between his creditors. Any creditor who has a lien over goods in his possession is entitled to sell the goods and discharge his whole debt instead of receiving only the dividend which is available to other creditors.

So far the contractor's possible difficulties have been considered, but the employer is likely to encounter another difficulty. If a contractor becomes bankrupt he may at the time of his bankruptcy be in possession of building materials which have been ordered by the employer for use on the site. His machines and scaffolding may be on the site, and the employer may find that their removal by creditors would present him with increased costs in the completion of the works.

Another problem which arises out of the bankruptcy of either party to a contract is whether or not the contract is terminated. The bankrupt himself can no longer continue the contract, but his right to do so rests in his trustee in bankruptcy who can continue the contract if he thinks that by so doing the value of the bankrupt's assets will be increased. There are thus several possible situations which might cause grave embarrassment to either party to the contract which must be guarded against when the contract is settled.

Both the R.I.B.A. form of contract and the C.C.C./Wks/1 contract provide that the employer shall have the right to determine the contractor's employment on his becoming bankrupt or, if a company, going into liquidation in circumstances which are equivalent to bankruptcy. The R.I.B.A. contract gives the contractor the same right on the Employer's bankruptcy or liquidation but the C.C.C./Wks/1 contract does not, since the employer is a Government department. Clause 19 (b) & (c) of the R.I.B.A. contract deals with the Employer's right to determine the contract and sets out the procedure to be followed. As in any case under the R.I.B.A. form where the Employer has the right to determine the Contractor's employment, the Employer is entitled to do various things. He may employ another contractor to finish the works using all the materials and plant which are on the site. He may require the contractor to assign to him the benefit of any subcontract for the execution of work or the supply of materials, provided that the Employer pays for the work done or materials supplied after such assignment. He may also require the Contractor to remove from the site within a reasonable time all goods or machinery belonging to him. There is also provision for the way in which the contractor is to be paid, but this is less relevant to the theme of bankruptcy. Clauses 45 and 46 of the C.C.C./Wks/1 form have much the same provisions except that the Employer* is not specifically empowered to require the contractor to remove goods and materials from the site. On the other hand the Employer has the right, not included in the R.I.B.A. form, to hire any persons employed by the Contractor in the execution of the works at the time the contract is determined.

These clauses and provisions are undoubtedly binding on the parties if the contract is determined for any other reason than the bankruptcy of

* I use this word rather than "Authority" for the sake of uniformity.

one of the parties, but it is doubtful how effective they are on bankruptcy. The Trustee in Bankruptcy, who assumes management for bankrupt's affairs, has an absolute discretion to disclaim or to continue any contract in existence at the date of the bankruptcy. It is probable, therefore, that the clauses discussed above would not be binding on him if he chose to disclaim the whole contract on behalf of the Contractor. On the other hand it is the Trustee's duty to make what he can of the bankrupt's assets and he would therefore be likely to continue any contract at whose completion there would accrue a credit to the bankrupt's estate, or whose discontinuance would involve the estate in a further liability. So it is likely in most cases that if the Employer terminated the contract on the ground of the contractor's bankruptcy, the Trustee in Bankruptcy would accede to the terms discussed above.

Other difficulties arise over the practical effect of those clauses of the R.I.B.A. form and the C.C.C./Wks/1 form which deal with the ownership of goods in the possession of the Contractor. Clause 11 of the R.I.B.A. contract states that when any certificate under which the contractor has received payment has included the value of unfixed materials or goods intended for and placed on or adjacent to the works, these goods or materials become the property of the Employer. The proviso to clause 20 of the same contract, which deals with the Contractor's right to determine the contract under various circumstances, one of which is the employer's Bankruptcy, purports to grant the contractor a lien over any goods or materials which have become the Employer's property under the provisions of Clause 11. The object of the proviso is to give the Contractor some security for any payments due to him from the Employer. The object of Clause 11 amongst other things is to protect the Employer in the event of the Contractor's bankruptcy.

It is in fact extremely doubtful whether either of these terms of the contract gives either party any real protection. To be effective such protection would have to prevent the Trustee in Bankruptcy laying his hands on goods which are either in the bankrupt's possession or his "reputed ownership." This last phrase is that used in Section 38(2) of the Bankruptcy Act 1914 which vests in the trustee, for the benefit of the bankrupt's creditors, "all goods being at the announcement of the bankruptcy, in the possession, order or disposition of the bankrupt, in his trade or business

by the consent and permission of the true owner, under such circumstances that he is the reputed owner thereof." The purpose of this section appears to be to prevent fraud by the bankrupt. Its effect on the provisions of clause 11 were discussed in a recent case*. In this case the Contractor went bankrupt and at the time of his bankruptcy there were three classes of goods and un-fixed materials which had been paid for by the Employer in accordance with Clause 24(b), that is, after certificate. They were (a) materials not bought on to the site but, with the Architect's consent, stored in the Contractor's yard; (b) materials brought on to the site but not fixed; (c) materials brought on to the site by a subcontractor but not fixed. The Court held that materials in category (a) were within the "reputed ownership" of the Contractor and vested in his Trustee, but that materials in the categories (b) and (c) were not. It is worth noting that under Clause 24(b) Certificates ought not to include materials unless on the site, and that under clause 11 ownership of materials does not pass to the Employer unless they are "placed on or adjacent to" the site. An architect who includes such materials stored off the site in a certificate is thus acting in a way which may jeopardize the Employer's interest.

The same arguments which apply against an Employer's claim to ownership under Clause 11 also apply to a Contractor's claim to a lien over goods under the proviso to clause 20. If the contractor's claim were effective as against the trustee in bankruptcy, the effect would be to give the contractor an unfair preference over other creditors. It is, therefore, unlikely that the proviso has any real protective value. The same is probably true of the terms of Clause 46 of the C.C.C./Wks/1 contract, though it is important to remember that all these clauses are effective as between the parties, and only ineffective as against the Trustee in Bankruptcy.

The risk of damage to the works by fire seems appropriate to discuss in the same article as bankruptcy if only because failure to insure against one may lead to the other. There is, of course, no duty to insure against fire apart from anything specifically agreed between Employer and Contractor. If such a term is inserted in the contract it is obvious that in the long run the Employer will have to pay the cost of the premiums, whether or not the duty of taking out the policy is on his shoulders. Both the parties have an interest in the effective insurance of the works. The contractor's interest is the greater when the works involve the construction of new buildings because if they are destroyed or damaged he will have nothing to show for his past labours and, despite the increased cost, will still have to complete the works according to the terms of the contract. On the other hand, if the contract in-

volves the repair of existing buildings, other considerations may make the Employer's interest the more important. These and other matters are reflected in Clause 15 of the R.I.B.A. form, which deals with insurance against fire. The C.C.C./Wks/1 contract contains no clause dealing with insurance.

Clause 15 of the R.I.B.A. form begins by requiring the Contractor to effect the insurances specified in the Bills of Quantities and to produce the policies for inspection when required. If he fails to do so the Employer may effect the insurances himself and debit the cost of the premiums against the Contractor's account. There are then two alternative subclauses (b) [A] and (b) [B]. The first of these applies to the construction of new buildings, the second to the repair of existing buildings. In the first case the Contractor is made responsible for effecting the insurances and the employer, as before, has power to effect them in his default. If a claim should arise under any policy, the Contractor is bound to rebuild or repair the damage as soon as the claim is settled. Although the insurance policies are effected in the joint names of the Contractor and the employer, the Contractor is only entitled to payment of any money received under certificates granted by the Architect as the work progresses. The Contractor is not entitled to receive anything apart from the insurance moneys for his efforts in repairing the damage and he could not pray in aid any rise in costs which might have occurred.

The second subclause (b) [B] provides that the existing buildings are to be at the Employer's risk and that the Employer is to insure against fire. If the works should be damaged by fire then the Contractor is to be paid the full value of the work executed by him up to the time of such damage, the value being assessed by reference to the Variations clause. Either party then has the right, if desired, to determine the contract by giving notice.

Bankruptcy or destruction of the works by fire are fortunately not everyday occurrences. If either of them should occur, the position of the party to the contract who is not at fault will be that much safer, if he has been careful to observe the conditions of the contract, and to ensure that the other party is doing the same.

By an unfortunate error in the last article of the series reference was made to the R.I.B.A. standard form of sub-contract. There is, of course, no such document. The document which it was intended to identify was The Standard Form of Sub-Contract issued under the sanction of and approved by the National Federation of Building Trades Employers and the Federation of Associations of Specialists and Sub-Contractors.

TIMBER NOTES

THE rail and dock strikes have not affected supplies from the timber trade, nor are there likely to be any serious repercussions. Stocks held by the importers and merchants are considerable and certainly up to the standard required to meet all demands from the building industry.

One result of the dock trouble has been a rising freight market, and the cost of shipping timber to this country is now rising quite sharply. This is bound to affect prices in due course and has rather stopped any hopes of a reduction in values later in the year.

Good redwood from Sweden and Finland remains at £87 a standard f.o.b. for unsorted quality in 7in width, with a reduction of £10 for fifths. Graded spruce is £81 a standard c. and f.

An interesting innovation by the Timber Development Association is the creation of a design service for which a charge will be made. The plan is to assist the architect with timber research for special designs in which timber is used as an engineering material, the sort of problem which is outside the customary practice of the average architect. Costings for this service have yet to be fixed.

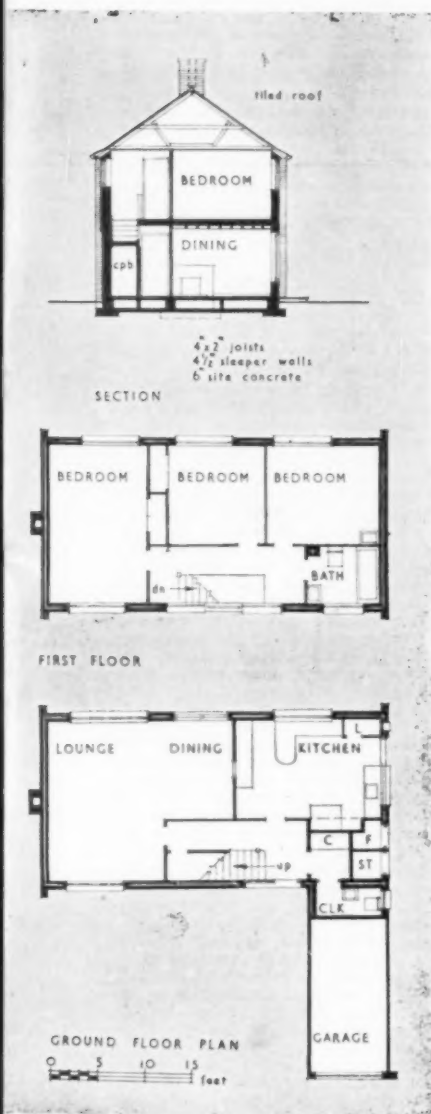
Hardwood prices are steady, and so far the import of American oak and Canadian birch and maple has had no softening effect upon the market, merely serving to prevent any excesses in the price of Japanese oak. It is understood the Americans are anxious to sell supplies of red oak on the British market; buying has so far been confined almost entirely to white oak.

Plywood stocks are now exceptionally high, and imports are heavy. This has combined with lower sales to the furniture trade, and prices for plywood are inclined to be a little lower. Usually the cheaper values appear where there is prompt payment. So far there have been no signs of any lower prices asked by the Finnish and Russian sellers.

Fibreboard stocks are also high, and prices are generally weak. Imports are believed to be too high for the present rate of consumption, thus forcing firms in need of finance to turn over their stocks at low prices.

There has been an interesting conference of members of the Fibre Building Board Development Organization at Oslo, when decisions were taken to increase the life of this body for another five years at least. Special attention is to be given to the problem of giving the user more technical information on the composition and uses for various grades and brands of building board, and in view of the hundreds of varieties available this information would be of considerable value to the architect who has to make a choice for his client. More study is also to be made of the fire hazard in its relationship with boards, and development along this line will be valuable to the builder.

* *Re Fox, ex parte Oundle & Thrapstone R.D.C. v. The Trustees* [1948] 1 AER 849.



Entrance elevation

House at Steyning, Sussex

architects: B. STEVENS and PARTNERS

THIS two-storey house at Maudlyn Park is the prototype for a speculative estate of architect-designed houses which are to cost, including a quarter-acre site and high standard of fittings and finishes, under £5,000. This particular house, with a well-equipped kitchen that includes an "Aga" cooker and water-heater, sells at £4,350. Outside walls are in eleven-inch cavity construction with Multi and Saxon sand-faced flintons externally. Windows are "Z" type standard metal frames and doors are flush internally and hardwood externally. Floors are timber, with the exception of the kitchen which has a solid floor covered with lino tiles; walls internally are plastered; the roof is covered with Courtrai-du-Nord tiles, and the drainage is to a septic tank system. The builders are Messrs. Hoad & Taylor Ltd., and the kitchen was designed by Mrs. Darcy Braddell for Aga Heat Ltd.



Garden elevation



Kitchen

The Monopolies Commission's Report

The Monopolies Commission's report on Collective Discrimination (Exclusive Dealing, Collective Boycott, Aggregated Rebates and other Discriminatory Trade Practices) was published on June 29.

This is the first general inquiry that the Commission have made under Section 15 of the Monopolies and Restrictive Practices (Inquiry and Control) Act, 1948. The report covers a wide range of collective practices, all of which involve discrimination in favour of, or against, certain customers or suppliers. The Commission were not asked to consider trading methods as such (except aggregated rebates); what they had to advise on was whether collective agreements to adopt or enforce them operate in the public interest. They found that agreements falling wholly or in part within their terms of reference exist in a wide range of industries and trades, and that their form may vary widely from one industry or trade to another. They have nevertheless found it possible for the purposes of their report to identify six broad categories of agreement. These are:—

I. Collective discrimination by sellers, without any corresponding obligation on the buyers.

II. Collective discrimination by sellers in return for exclusive buying ("exclusive dealing").

III. Collective adoption of conditions of sale (notably the maintenance of resale prices).

IV. Collective enforcement of such conditions of sale.

V. Collective discrimination by buyers without any corresponding obligation on sellers.

VI. Aggregated rebates.

The Commission discuss each of these categories in turn, illustrating them from the evidence which they have received from this inquiry, and from their earlier Reports. They discuss the arguments for and against each category of agreements, and the effect on the public interest of action taken in the course of carrying them out. They then discuss the policies adopted in certain other countries—U.S.A., Canada and Sweden—in relation to such agreements. Finally they discuss the general effect of the practices on the public interest, and make recommendations as to possible action by the Government.

The inquiry was made by a group of ten members of the Commission. They have concluded by a majority of seven to three (subject to a reservation by one of the seven about enforcement agreements) that all the types of agreements examined do in general affect the public interest adversely, some to a considerably greater degree than others. The majority have been impressed particularly by the effect of a binding and collective obligation in preventing traders from experimenting and from trying out new or different ways of conducting their business. Such obligations, they say, create an undue rigidity which may affect the numbers and kinds of concerns engaged in a trade, the trading methods of those established in the trade and the level of prices both generally and to different classes of buyers. They think, however, that the use of the practices might, subject to suitable safeguards, be justified in exceptional circumstances:—

(a) Where consumers are not able to

judge the standard of service which it is in their interests to demand from distributors, and the matter cannot conveniently be dealt with by legislation.

(b) Where an exclusive-buying or exclusive-dealing agreement protects an industry of strategic importance, or one that is peculiarly susceptible to damage from imports, and protection by Government action is impracticable.

(c) Where a common price agreement is found after inquiry to operate in the public interest and agreements within the scope of their present inquiry are necessary for its effective operation.

(d) Where the practices are necessary to enable small firms to compete with a very large concern which is itself employing restrictive practices.

The report discusses two possible alternative courses of action, either of which would require legislation:—

(i) Compulsory registration and publication of agreements (with subsequent prohibition of those found after investigation to be against the public interest).

(ii) A general prohibition of the practices, with provision for exceptions, on the grounds stated above, in particular cases.

The majority prefer the second course. They suggest that exceptions might be made by Statutory Order, on the advice of an independent body, which would assess the merits of each application for exception.

The remaining three members are not prepared to say that the practices are in general injurious to the public interest. They recognize that some may be injurious in certain circumstances, but do not think that industries should be prevented from using them without having an opportunity of having their cases examined individually. A general statutory prohibition seems to them to create a degree of inflexibility in the law which might in the future prove undesirable. They would, however, be prepared to accept the idea of compulsory registration considered, but rejected, by the majority.

These three members think that agreements, and the enforcement of agreements, obliging all the parties to fix resale prices or handle only price-maintained goods, are likely to be against the public interest. But they disagree, as does one of the other seven members, with the finding that collective arrangements for the enforcement of resale prices prescribed by individual manufacturers in general operate against the public interest. It seems to them illogical that, if it is lawful for individual manufacturers to prescribe resale prices, they should be debarred from enforcing maintenance of those prices in the most effective manner consistent with the general law.

Plasterboard

The Gypsum Building Products Association, representing the Plasterboard Manufacturers, have issued a statement on one or two points which have come to light following the receipt of many enquiries relating to their current campaign to make all concerned in the Building Industry more conscious of the necessity for high standards of fire resistance and thermal insulation in all types of buildings.

The first point is that there appears to

be, in some quarters, a misconception that Plasterboard is made in one standard size of 8ft x 4ft only. In fact, a wide range of suitable sizes is readily available as follows:—

Gypsum Baseboard, $\frac{1}{2}$ in thick and 3ft wide is made in lengths of 2ft 6in; 2ft 8in, 4ft and 4ft 6in.

Gypsum Lath, $\frac{1}{2}$ in thick and 1ft 4in wide is available in lengths of 3ft 6in, 4ft and 4ft 6in.

Gypsum Wallboard is available in two thicknesses, $\frac{1}{2}$ in and $\frac{3}{4}$ in, each of which is made in 2ft, 3ft and 4ft widths with a length range of 6, 7, 8 and 9ft, while the 3ft and 4ft widths are also available in 10, 11 and 12ft lengths.

These standard sizes are available in plain Gypsum Plasterboard or in Insulating Gypsum Plasterboard, the latter having a brightly polished aluminium foil veneered to one side to give added thermal insulation.

Another subject which appears to be causing considerable concern in the Building Industry is the grave deterioration in material quality and workmanship of the timber components of dwelling houses compared with pre-war standards. This is particularly true of ceiling joists and has, no doubt, been aggravated by the scarcity of good quality soft woods during and immediately after the war.

There appears to be an urgent need for a return to a more rigid specification for timber used as ceiling joists, not only so far as seasoning is concerned, but in the regularity of depth and thickness of cross section. The use of joists varying as much as $\frac{1}{2}$ in in depth appears to be prevalent and thicknesses as small as $\frac{1}{2}$ in are common. There is an almost complete absence of the use of noggin pieces which often helps to prevent the lengthwise twisting which is so often apparent in present day constructions after the drying out period. Shrinkage and twisting of inadequate and wet timber used for ceiling joists is almost the universal cause of cracks appearing in and around finished ceilings.

The workmanship in placing ceiling joists sometimes leaves much to be desired, for not only are the bottom faces often left unaligned resulting in an uneven surface, but the centres between joists are not always of uniform dimension. These faults will, of course, cause difficulty in fixing ceiling lining and may result in an inferior finish.

The desired standard for ceiling joists is that they should be of well seasoned timber accurately sized and of a depth and width sufficient to support the floor and/or ceiling loading. The width should not be less than 2in which is the minimum required for proper nailing of ceiling linings and floor boards. When using Plasterboard $\frac{1}{2}$ in thick, joist centres should normally be at 1ft 4in but it is permissible to increase this dimension to a maximum of 1ft 6in for top floor ceilings. Joist centres may be increased to a maximum of 2ft when $\frac{1}{2}$ in thick Plasterboard is used. The standard sizes for Plasterboard are designed to meet the requirement of ceiling joists spaced at these centres and cutting to waste can be almost completely eliminated by choice of the correct length and width.

CORRECTION

Page 734, June 16, the Primatic Unit is the patent of Range Boilers, Ltd., Stalybridge, Cheshire, and is manufactured in Scotland by Water Heating Systems, Ltd., of Kirkcaldy.

INDUSTRIAL NOTES

● The recently founded Institute of Ceramics has two main objectives: to establish and maintain among ceramics technologists the highest standard of professional conduct, and to improve the level of ceramic knowledge of those in or about to enter the ceramic industries. Membership of the institute is divided into three main classes: Licentiates, Associates and Fellows. The institute will maintain a Register of quality ceramics technologists and it has been decided that the council, acting in committee, shall constitute the Nominations and Examinations Committee to which must be submitted applications for membership. Copies of the byelaws can be obtained from the Secretary, Institute of Ceramics, Ltd., Federation House, Stoke-on-Trent, Staffs.

● A plant for the expansion of the building materials industry in Israel is included in a report prepared for the Israel Ministry of Trade and Industry. Among the new enterprises, the establishment of which is recommended, are the following: mechanized quarries in the south of the country, each of which will require an investment of approx. \$200,000 and £100,000; two modern cement enterprises, requiring an investment of \$5 million and £25 million; additional tile manufacturing works in the south, each requiring an investment of \$50,000 and £25,000; new enterprises for the production of bricks, and factories for the production of cement blocks.

● The President-designate of the Association of Public Lighting Engineers, who is to be inducted at the Annual Conference at Folkestone (September 13-16), is Mr. J. M. Waldram, Senior Research Illuminating Engineer of The General Electric Co., Ltd.

● Mr. E. A. Duligal, B.Sc., A.R.I.C., A.R.T.C.S., has been appointed Technical Manager of the Paints Division of Evode, Limited, Stafford, England. Consequent to this appointment, considerable expansion will take place in the Paints Division of the Company. Mr. J. H. Briant, Assoc. I.N.A., has been appointed Technical Manager of the Mastics Division. Mr. T. S. James has been appointed Paints Specialist to the Executive Staff.

● To help architects, builders and private householders to choose woods with the desired properties and appearance the Hardwood Flooring Manufacturers' Association and the Timber Development Association have collaborated to provide a permanent exhibit of sixty flooring timbers at the offices of T.D.A. at 21, College Hill, E.C.4. Visitors will be welcome to inspect the exhibition during office hours, and T.D.A.'s technical staff will gladly answer enquiries by post, or be available for discussion at College Hill.

● Fibromold, Ltd., has been recently established as fabricators of Resin Glass Laminated Structures. Initially they will produce components to be used in the following fields: Chemical Plants, Ventilation and general Ducting, Aircraft components, Dinghy hulls, Automotive components, etc. The chairman of the company is Mr. Roy Siemssen and the Managing Director, Mr. Charles Meisl; the subscribed capital being £10,000. A new factory has been erected at Hanworth Lane, Chertsey, and production is scheduled to start in the early days of August.



Stand for British Geon Ltd., at British Plastics Exhibition, Olympia, designed by Ian Bradbery M.S.I.A.

● The 26th Building Exhibition will be held at Olympia, London, this year, from November 16 to 30. Over 600 stands will occupy an area of 350,000 sq. ft. In each Exhibition a special display deals with developments in a basic building material. In 1953 prestressed concrete was featured and this year several firms are individually exhibiting this important technique. The feature this year will be the use of Timber in Building.

● *Cabma Register 1955-56 of British Products and Canadian Distributors*. Published jointly by Kelly's Directories, Ltd., and Iliffe and Sons Ltd., for the Canadian Association of British Manufacturers and Agencies—Managers of the British Trade Centres in Toronto, Vancouver and Montreal. Price 42s.

The object of the Canadian Association of British Manufacturers and Agencies, for whom the Register is published, is to develop an ever greater market for British goods in Canada, and so stimulate the two-way flow of trade between the two countries.

The Buyers' Guide provides an alphabetical list of some 4,000 British products available to the Canadian market, with their suppliers given under each heading. The French equivalents of these headings are set out in alphabetical order in a separate glossary. A directory of over 4,500 British firms gives details of their distribution arrangements in Canada; and these arrangements involve about 2,750 Canadian companies. Finally, special sections enable the Canadian buyer to identify products and their sources of supply when only their proprietary names or trade marks are known.

● F. E. Weatherill, Ltd., have moved to Tewin Road, Welwyn Garden City, Herts. Telephone: Welwyn Garden 4221.

● The Aveling-Barford Group of Companies announce that a new subsidiary, Aveling-Barford Africa (Pty.), Ltd., has been formed in Johannesburg. Branch offices have been opened in Cape Town and Durban, and a third will soon open in Salisbury, Southern Rhodesia.



Coventry Street Corner House, remodelled by J. Lyons & Co. as "The Wimpey", designed by Sam Horowitz, showing extensive use of Claygate bricks

● The use of automatic production control processes and the progress made in the manufacture of electronic computers have recently been investigated, under the auspices of the O.E.E.C. European Productivity Agency, by a group of European technicians, sociologists and trade unionists. An American expert has pointed out that a detailed analysis of the rate of progress of these new techniques over the last five years and the probable trend in the next five years would show that the investment required would be very heavy, and would thus act as a brake allowing both management and labour to adapt themselves to the new techniques; this would allay trade union apprehensions.

● Pilkington Brothers, Limited, of St. Helens, have introduced a surface cladding type of glass, 1/4 in thick, in a series of colours available in Rough Cast quality, wired and unwired. The colour, which is a vitreous enamel, is fused on one side of the glass.



The New Inn, Millerston, redesigned by Archibald Hamilton (Shopfitters) Ltd., using Warerite plastics on horizontal surfaces



MOSAICS

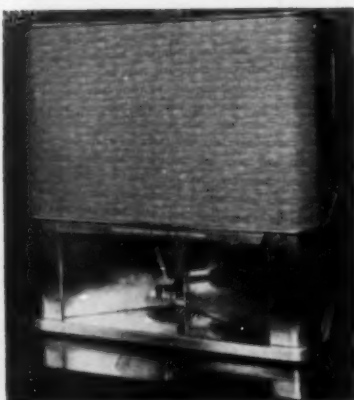
SERVICES MISCELLANEOUS B7/3

The "Econometer" has been produced by Kelvin & Hughes (Industrial) Ltd., for the purpose of indicating combustion conditions in furnaces. This is shown by an arrangement of varying coloured bands which provide an easy guide. The instrument, which is designed for either panel or wall mounting, is housed in a rectangular cast light alloy case. It is claimed to be fume and moisture proof and is fitted with removable covers for easy access. Designed to operate from 50 cycles/sec. A.C. mains at voltages within 110/125 or 200/250 ranges at a consumption of approx. 40 watts. Finish: black stove enamel.



PLANT STORAGE EQUIPMENT E5/2

The "Welconstruct" slotted steel shelving by The Welconstruct Co. Ltd., of Grenville Buildings, Cherry Street, Birmingham 2, can be supplied as either open or closed type units. Standard bays are 6ft high x 3ft wide but heights up to 9ft high are available. Shelves are of steel and are designed to carry up to 2cwt and 4cwt in medium and heavy grades respectively. Shelf depths range from 12in to 36in and they are adjustable on 3in centres. Ease of assembly is claimed to be an outstanding feature. Finish: green enamel with bright galvanized shelves.



SERVICES MISCELLANEOUS B7/4

The "Bruin," claimed to be the first automatic tea brewer, has been produced by Peerless & Ericsson Ltd., of 1 Carlisle Road, The Hyae, London, N.W.9. The machine has a large metal frontage with funnel-shaped dispenser above a curved lever. When a cup is pressed against the trigger hot tea pours down one chute and a pre-measured amount of milk down another from a separate reservoir. Both milk and tea reach the cup at the same time. At the top of the machine is a rotating basket with eight segments, each containing 1½oz to 1½oz of tea. As each cup is filled the basket rotates so that a quantity of fresh dry tea is used for each cup. 225 cups of tea can be made before the basket needs changing and 600 cups can be served per hour.



FITTINGS SINKS, BATHS, Etc. C2/28

The "Etonian" vitreous china lavatory basin by Ideal Boilers and Radiators Ltd., of Ideal Works, Hull is part of a range of sanitary appliances designed specifically for use in schools. The fittings are chromium plated and the pin non-concussive spring taps can be supplied with either metal or plastic heads. Nominal size 15in x 13in. The basin can be supplied with either weir or slot overflow.

INDUSTRIAL NOTES

● The first issue of a new controlled circulation quarterly—*Materials Handling News*—dealing with all types of labour-aiding machinery was published on July 1 by *Mechanical Handling*, the journal which organizes the Mechanical Handling Exhibition. Materials handling, properly applied, can benefit all industries large and small, yet many firms are still not making the maximum use of the equipment available: it is to such people that *Materials Handling News* is addressed.

The first issue shows, among other things, what is to be gained from mechanization; how handling costs can be reduced; how the latest labour-aiding equipment saves money and man hours; how the loading and unloading of lorries should be organized for maximum efficiency, and discusses some of the latest equipment. Readers wishing to receive copies of *Materials Handling News* should write to Dorset House, Stamford Street, London, S.E.1.

● The Birmingham office of Honeywell-Brown, Ltd., has moved to Sutton New Road, Erdington, Birmingham, 23, and will be under the management of Mr. P. R. Prior.

● Sir John Hathorn Hall, G.C.M.G., D.S.O., O.B.E., M.C., has been appointed chairman of the Limmer and Trinidad Lake Asphalt Co., Ltd.

● The L.M.B.A. has applied for corporate membership of the British Institute of Management. The Institute is the national body for the study and promotion of the science of management in industry and commerce. It is supported by the Government, the F.B.I., the T.U.C. and many other organizations.

● British Paints, Ltd., announce that Mr. Norman Ellis has rejoined the organization in the capacity of sales manager of the decorative division.

● Mr. H. G. Harlow, B.Sc., M.I.E.E., is now manager of Newcastle District Office of the British Thomson-Houston Co., Ltd. Mr. W. J. Wilson, A.M.I.E.E., is now manager at Leeds.

● The Ballast, Sand & Allied Trades Association's Banquet and Ball next year will be held at the Great Room, Grosvenor House, London, W.1, on April 19.

● Enfield Cables Limited announce that the South of Scotland Electricity Board has awarded them a contract to the value of approximately £130,000 for the supply and installation of cables between Dalmarnock 132 kV. Grid Sub-Station and Charlotte Street Sub-Station, Glasgow.

● The closing date of the Nuralite competition has been extended from August 20 to September 15, 1955.

● The Scottish office and service depot of the Atlas Diesel Co., Ltd., is now at 591, Nitshill Road, Glasgow, S.W.3. (Telephone: Barrhead 2346/8.)

● E. K. Cole, Ltd., announces that the company's Scottish Service Depot has transferred to 17, Cadogan Street, Glasgow, C.2. Telephone: Glasgow Central 3633/4.

● Hathernware, Ltd., announces that following the retirement of Mr. C. E. Taylor, the vacancy created on the Board has been filled by the appointment of Mr. N. Tanner.

● To improve the service offered to architects, builders, shopfitters, etc., Warerite, Ltd., has appointed a number of firms throughout the country as "Warerite Specialists."



This recessed lighting scheme of the canteen in the American Embassy was designed by Philips

For Imaginative Lighting

Talk to **PHILIPS**

Philips will be happy to design for you — there is no charge

Some of the more imaginative lighting schemes of recent years have been the result of close co-operation between architects, electrical contractors, and the Philips Lighting Design Service.

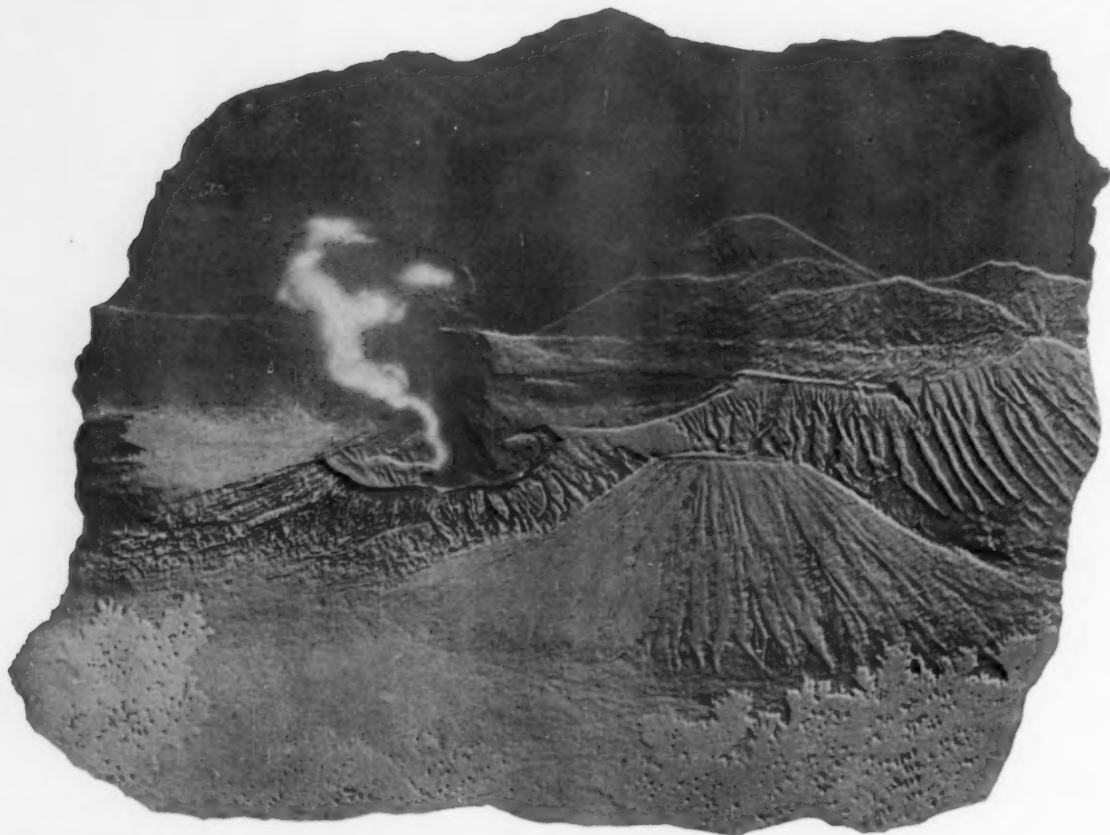
The advice and assistance provided by this Philips Service is entirely free, and experienced lighting engineers in each Philips branch area are at your service. In addition, a fully qualified architect with special experience of lighting in its relation to architecture and colour is available to co-operate with you.



PHILIPS ELECTRICAL LTD

LIGHTING DIVISION • CENTURY HOUSE • SHAFTESBURY AVENUE • LONDON W.C.2

Tungsten, fluorescent, blended and discharge lamps & lighting equipment • Radio & Television Receivers • "Photoflux" flashbulbs, etc.



Useful things volcanoes

You may be right, but why bring that up here?
Because that most remarkable pre-mixed plaster,
Perlited Carlite, begins as volcanic rock.

Very interesting but what is so good about Perlited Carlite.

It has tremendous advantages because of its lightness. Perlited Carlite weighs only a third as much as sand-based plasters. Reduction in heavy work increases the plasterer's output. Many incidental expenses are reduced. With all this the cost is well

within the scope of any type of contract.

Very well worth knowing. It must be easier to handle too.

It's the most practical of all plasters. It's exceptionally strong and resistant to cracking with a high thermal insulation value.

Do architects approve the use of Perlited Carlite?

Approve it? They insist on it - Perlited Carlite is pre-mixed and carefully tested at the factory. It never varies in standard.

CARLITE *perlited*
pre-mixed plaster



For full details of Carlite please write to:—The Gotham Company Ltd, Nottingham

The Carlisle Plaster & Cement Co, Cocklakes, Carlisle

CURRENT MARKET PRICES (LONDON)

(These prices apply to material purchased in the quantities named or otherwise as might be expected for a new building of moderate size).

June, 1955

AGGREGATES AND SAND

1½ inch—all in—ballast	.. ..	23/-	Yard cube
¾ inch do. do.	.. ..	24/-	delivered
¾ inch screened shingle	.. ..	21/-	(in five yard
¾ inch do. do.	.. ..	22/9	loads or
¾ inch granite chippings	.. ..	45/-	more)
Sharp washed sand	.. ..	23/2	
Pit sand	.. ..	22/3	
Building sand	.. ..	22/-	
Broken brick	.. ..	18/6	
1½ inch shingle	.. ..	22/-	
Cartage of muck	.. ..	8/-	

BUILDING MATERIALS AS DESCRIBED, CENTRAL LONDON

CEMENTS packed in paper bags		Per ton
Portland in 6 ton lots	.. ..	96/6
Do., from 1 ton to 5 ton 19 cwt do.	.. ..	105/6
Do., Rapid hardening (6 ton lots)	.. ..	104/6
Do. (but 1 ton to 5 ton 19 cwt)	.. ..	113/6
Cement "Aquacrete" (do.)	.. ..	138/-
Do., "417" or "Polar" (do.)	.. ..	138/-
Do., "White" 1 ton (lots)	.. ..	257/-

LIME—		127/- (1 ton loads)	deliv'd
Hydrated	.. ..	124/6 (2/3 do.)	do.
and	including	114/6 (4/5 do.)	do.
Ground	paper	112/6 (6 do.)	do.
	bags		

PLASTER—		
Keenes, coarse, pink (2 ton lots)	.. ..	194/- ton
Do. do. white (do.)	.. ..	199/6 do.
Sirapite, do. (2 ton to 3 ton 19 cwt lots)	.. ..	145/- do.
Do. finish (do.)	.. ..	153/- do.
Hardwall, do. (do.)	.. ..	156/6 do.
Plaster, coarse, pink (do.)	.. ..	143/9 do.
Do. do. white (do.)	.. ..	151/3 do.
½ in. Plaster baseboard (25 to 75 yards)	.. ..	2/10 Yard Sup.
½ in. Do. (150 to 299 yds.)	.. ..	2/6 do.
¾ in. Jute scrim (100 yd. roll)	.. ..	8/- each
Cow hair (under 3 cwt)	.. ..	97/6 cwt

FIRECLAY—		
Stourbridge, loose (1 ton lots)	.. ..	166/3 ton delivered
Fire cement	.. ..	12/3 14 lb

BRICKS

BACKING BRICKS (in truck loads)—			
Flettons	.. ..	113/- per	1,000 delivered
Do. Keyed	.. ..	115/- do.	
Do. bullnose	.. ..	133/- do.	
Blue wirecuts	.. ..	470/- do.	
White	.. ..	192/- do.	
Southwater engineering (No 1)	.. ..	385/- do.	
Firebricks—2½ inch	.. ..	69/3 per	100 delivered
Do. —3 inch	.. ..	87/3 do.	

STOCK BRICKS—		
Mild stocks	.. ..	176/6 per 1,000 at Works
Second, do.	.. ..	211/- do.
First, do.	.. ..	227/- do.
Add for delivery—approx 45/- per 1,000 in lorry loads.		

FACINGS (ex truck or lorry)—		
Rustics	.. ..	138/- per 1,000 delivered
White	.. ..	200/- do.
Blue pressed, 2½ in	.. ..	510/- do.
Do. bullnose	.. ..	527/6 do.
Reds (Multi sand faced)	.. ..	310/- do.
White glazed stretchers	.. ..	1376/- do.
Do. headers	.. ..	1354/- do.
Do. bullnose	.. ..	1720/- do.
Do. double stretchers	.. ..	1827/- do.
Do. double headers	.. ..	1656/- do.
Breeze fixing bricks	.. ..	28/6 per 100
Fire tiles and lumps	.. ..	33/- foot cube
Wall ties—8" × ½" × ½", black	.. ..	57/- per cwt
Cement mortar (1 : 3) hand-made	.. ..	82/- yard cube

BRICKLAYERS' SUNDRIES—

AIR BRICKS		9 × 3in	9 × 6in	9 × 9in	12 × 9in
Iron	.. each	1/11	3/2	4/9	6/4
Galvanized do.	do.	3/5	5/8	8/4	11/3
Terra Cotta	do.	1/3	2/6	5/3	10/2
Chimney pots, Terra Cotta (11 to 25) do.	1ft	2ft	3ft	4ft	
	6/8	11/8	26/6	45/8	

PARTITIONS—

18in. × 9in. Blocks keyed for plastering.				
Per yard super in 6 ton lots	.. ..	2in	2½ in	3in
In solid clinker including any half blocks	.. ..	3/7	4/2	5/-
In cellular clinker blocks	.. ..	4/3	4/11	5/9
In hollow clay blocks	.. ..	4/3	4/6	5/2

Clinker blocks in small quantity .. 5/2 6/1 7/4
Intermediate quantities in all types may be had at intermediate prices.
Smooth in lieu of keyed faces extra cost per side 3d. per yd. super

SINKS—

Fireclay white glazed in and out—standard quality				
	24 × 18in	30 × 18in	30 × 20in	
London pattern, no overflow,				
6in. deep	.. ..	65/6	82/-	86/6
Belfast, plain edge, 10in deep	.. ..	76/-	130/-	174/-

FLUE LININGS PLAIN, CIRCULAR—

		Foot lineal	Each
		Straight	Bends
9in diameter	.. ..	3/8	11/-
10in. do.	.. ..	4/7	13/9
12in. do.	.. ..	8/8	26/-
9in diameter, beaded end, 12in high	.. ..		4/10

FLUE PIPES AND FITTINGS—

		4in	5in	6in
Heavy asbestos type, 6ft length	.. ..	15/3	21/-	26/6
Do. 3ft length	.. ..	7/8	10/6	13/3
Do. bends	.. ..	5/9	7/3	8/8
Light asbestos type, 6ft length	.. ..	12/6	15/9	21/-
Do. 3ft length	.. ..	6/3	7/11	10/6
Bends	.. ..	4/7	5/9	6/11
Baffler	.. ..	12/5	14/9	15/8

DRAINAGE GOODS

GLAZED STONEWARE STANDARD LIST

		4in	6in	9in
ORDINARY TYPE—EACH				
Pipes in 2 feet lengths	.. ..	1/8	2/6	4/6
Bends	.. ..	2/6	3/9	10/1½
Junctions (4in on 4in, 6in on 6in, 9in on 9in)	.. ..	4/2	6/3	13/6
Gullies with 4in outlets	.. ..	6/3	6/10½	11/3
4in horizontal inlets	.. ..	2/-	3/-	5/-
4in vertical ditto	.. ..	3/-	4/-	7/-
Black iron grids	.. ..	9d	1/5	2/9

Adjustment to Current Cost

		2 ton lots or more	100 pieces or more	Under 100 pieces
"Best" pipes and fittings. Percentages to add	.. ..	67½	97½	107½
Further percentages to be independently added in respect of: British Standard pipes, etc., 10. "Best" Tested pipes, 37½. British Standard Tested, 47½.				

IRON DRAINAGE GOODS—

Each		4in	6in
Cast iron pipes, 9 feet long	.. ..	67/-	99/3
Do. 6 feet do.	.. ..	48/4	75/10
Do. 4 feet do.	.. ..	37/8	59/2
Do. 2 feet do.	.. ..	23/1	35/3
Short bend	.. ..	16/2	33/7
Junction	.. ..	28/5	55/-

CURRENT MARKET PRICES (Continued)

DRAINAGE GOODS—Continued

GULLEY PARTS—		4in	6in	
Traps, high level, invert .. ..	..	26/-	65/-	each
Inlet, bellmouth pattern .. ..	..	15/-	24/-	do.
Do. with one vertical branch ..	..	26/-	46/6	do.
Do. with two .. ..	..	67/6	111/-	do.
Extra for Sealed cover .. ..	..	4/-	6/6	do.

RAINWATER SHOES		4in	6in	
With vertical inlet and rebated top ..	..	29/6	77/-	each
Extension piece, 6in high .. ..	..	17/6	17/6	do.
Flat loose coated grating .. ..	..	4/-	4/-	do.
Loose solid coated cover .. ..	..	5/2	5/2	do.

MANHOLE CHANNELS, WHITE GLAZED—		4in	6in	9in
Each .. ..	..	15/-	21/3	36/3
Taper, ditto .. ..	..	25/-	25/-	37/6
Bends, main, half section .. ..	..	28/9	41/3	67/5
Ditto, branch, ditto .. ..	..	17/6	25/-	—
Ditto, ditto, three quarters, ditto ..	..	25/-	38/9	—
Junctions, single .. ..	..	23/9	41/3	—
Ditto, double .. ..	..	32/6	56/3	—

BROWN GLAZED CHANNELS—		4in	6in	9in
Based on standard list (less than 100 pieces)				
Half-round main channel (2ft long) ..	..	2/8	3/11	7/-
Extra for stop ends .. ..	..	2/8	3/11	7/-
Extra for outlets .. ..	..	5/3	7/10	—
Channel bends with splayed ends ..	..	7/10	11/8	—
Three-quarter section do. .. ..	..	10/5	15/7	—

MANHOLE COVERS—		Black	
24 × 18in Light foot traffic .. ..	..	27/-	each
Do. Strong do. .. ..	..	35/-	do.
Do. Light car traffic .. ..	..	100/-	do.
Do. Road traffic .. ..	..	155/-	do.

SUNDRIES—		Galvanized	
Manhole steps .. ..	..	7/9	each
4in Mica valve fresh air inlets ..	..	27/3	do.
(L.C.C.) .. ..	..	7/3	per lb
Plumber's hemp .. ..	..	1/5½	do.
Gaskin, caulking .. ..	..	9d.	per ft run
Canvas backed hair felt, 4in wide ..	..	—	—

ROOFING MATERIALS

WELSH SLATES (delivered)—		Quantity	
Full Loads		100 to 499	1 to 99
Sizes in inches	per 1,000	per 100	per doz.
22 × 11	1920/-	260/3	34/3
20 × 10	1700/-	228/6	29/3
18 × 10	1240/-	162/-	21/6
16 × 10	1020/-	131/3	17/3
14 × 9	780/-	89/6	11/9
14 × 4½	347/-	40/-	5/3

TILES (Broseley and Staffordshire)—		per 1,000	per 100
10½ × 6 Machine made .. ..	..	297/6	36/-
Do., hand made, sand faced .. ..	..	354/6	43/-
Hips, valleys and angles .. ..	..	31/-	per dozen
Plain concrete tiles .. ..	..	177/-	19/6

Sheeting asbestos corrugated, 6in pitch (23 to 85 super yard lots) .. ..	..	7/-	yard super
4½in × 16 gauge, drive screws (galvanized) ..	..	16/3	gross
7½ × ½ hook bolts and nuts (do.) .. ..	..	48/-	do.
Washers, round, flat galvanized .. ..	..	4/9	do.
Do. do. bituminous .. ..	..	2/-	do.

ROOFING FELT—			
Sanded bitumen felt (55lb)	..	..	1/- Yard Super
Ditto, but 75lb in weight	..	..	1/6 do.
Inodorous felt, best quality	..	..	3/- do.
Ditto, second quality	..	..	2/4 do.
Underlining	..	..	1/8 do.
Sheathing	..	..	1/8 do.
Galvanized felting nails	..	..	1/6 lb

PRECAST CONCRETE LINTOLS—

1 : 2 : 4—½in material, finished with fair exposed faces, including all form-work, and one ½in diameter mild steel rod reinforcement to each 4½in in width.

Per foot lineal delivered to site.		4½in × 6in	9in × 6in	9in × 9in	13½in × 9in	18in × 9in
		4/-	6/-	7/8	9/6	11/6

STONE

PER FOOT CUBE in random blocks not exceeding 20ft cube in each, free on rail London.

Monks Park 8/- St. Aldhelm 9/-
Portland brown Whitbed 8½
Other stone but delivered to sites. Douling 8/9, Beer 8/3

TIMBER

Softwood—sawn—random lengths.

	Per Standard	Per cubic foot
Carcassing quality	£105	12/8
Joinery quality	£120 and up	13/4

Plain edged unsorted flooring,		½in	1in	1½in	1¾in
per square .. ..	..	90/-	110/-	138/-	165/-

½in insulating wall board (600 yards) 4/4 yard super.

Larger quantities cost less, and smaller quantities more.

SUNDRIES—

	Dia.	3in	6in	9in
Black hexagon	½in	7d	9d	11d
bolts, nuts and washers. Each ..	½in	10d	1/1	1/4
Sashline, hemp, good quality ..	½in	1/2	1/6	1/10
Per Yard Run	No. 6	No. 8	No. 10	
Floor brads	9d	1/1	64/-	per cwt
Cut Clasp Nails .. ..	..	..	65/-	per cwt
Steel ordinary screws 1" ..	No. 8 2/10	2" No. 8 4/10	..	per gross
Brass, ditto	Do. 8/8	Do. 15/2	..	..

HARDWOOD—

	Per ft super	Per
Prime	½in	lin
African mahogany	2/4	2/6
Honduras ditto	3/3	4/-
Portuguese Guinea ditto	3/1	3/3
African walnut	2/5	2/7
Australian ditto	5/6	5/10
English oak	4/3	4/6
Yugoslavian ditto	3/4	3/7
Burma and Siam Teak	5/-	5/9

DOORS.—STANDARD TYPE SOFTWOOD

Each in quantities 12 or more.

1½in finish, 4 horizontal panels moulded both sides 6ft 6in high.

2' 3" wide 41/-

2' 6" do. 42/3

2' 9" do. 44/6

FLUSH DOORS 1½in thick, ply faced both sides, lipped edge.

All 6ft 6in high.

2' 3" wide 47/6

2' 6" do. 49/6

PANELLED DOORS:

see B.S. 459—Part 1.

FLUSH DOORS—

see B.S. 459—Part 2.

2in (nominal) as last but upper panel prepared for glazing

2' 6" wide 59/-

2' 9" do. 62/-

2in (ditto) all as above but in 3 panels.

2' 6" wide 55/9

2' 9" do. 58/3

2in (ditto) all as above but in 2 panels.

2' 6" wide 51/3

2' 9" do. 53/6

IRONMONGERY

	2in	3in	4in	5in	6in
Cast iron Butts, per pair ..	1/-	1/8	2/7	4/11	6/11
Hinges, spring, single action regulating, japanned, each	—	8/-	10/3	13/9	18/3
Do. but double action spring only, each	—	14/3	18/3	23/3	29/3
Do. blank only, each	—	8/9	12/-	17/9	21/6



**THESE ARE THE DOORS
FOR THE
MODERN INTERIOR**

*They let light into
every corner*

Interior doors made of "ARMOURCAST" Glass are the practical answer to every modern housewife's dream for a brighter home. She need no longer be bothered with dark corners, gloomy hall-ways. Here is a door that lets light in and out without destroying the essential privacy of life. A door that has no fussy ledges or ornaments to catch the dust. Indeed a door that fits perfectly with contemporary standards of furnishing and interior decoration.

"ARMOURCAST" Doors are made from 1" Rough Cast Glass, toughened for additional strength, and equipped with hinge and lock fittings in Bronze Metal Antique finish. Standard sizes are 78" x 33" or 78" x 30". Non-standard sizes can be made to order.

"ARMOURCAST" Glass Doors
PILKINGTON BROTHERS LIMITED
ST. HELENS. LANCs.



For further information on the use of glass in building,

CONSULT THE TECHNICAL SALES AND SERVICE DEPT. . . ST. HELENS, LANCs (PHONE: ST. HELENS 4001)
OR SELWYN HOUSE, CLEVELAND ROW, ST. JAMES'S, LONDON, S.W.1 (PHONE: WHITEHALL 5672-6)
Supplies are available through the usual trade channels. "ARMOURCAST" is a regd. trade mark of Pilkington Bros. Ltd.

A.C.H.T.



Courtesy: Scottish Industries Exhibition.

The Lumenated Ceiling offers the following advantages:

- Ideal for showrooms, shops, offices, foyers and similar applications
- An excellent method of modernising old, high ceilinged premises
- In new buildings, structural ceiling requires no special finish—it is hidden
- Easy access to lighting fittings
- Durable, dust-repellent, easy to clean and maintain
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- Air conditioning and acoustic systems easily incorporated

Our Advisory Service is available at all times to produce recommendations for every type of installation.

Full technical data and specifications are available on request to our London office.

Ceiling and Lighting combine to form the *new*

LUMENATED CEILING



Courtesy: Dolcis Ltd.

Here at last is an entirely new lighting technique in keeping with contemporary design, and present-day emphasis on good lighting. With the LUMENATED CEILING, there is no glare, no shadow and no 'high spots'. A pleasant, even light of correct intensity is diffused from the entire ceiling area. For showrooms and shops, it overcomes the usual 'mirror' effect of the front window. No light fittings are visible and the ceiling is attractive whether the light is on or not.

LUMENATED CEILINGS LIMITED



LONDON OFFICE: 4 LLOYDS AVENUE, E.C.3. TEL: ROYAL 1927
HEAD OFFICE: THERMOTANK LTD., HELEN STREET, GLASGOW

CURRENT MARKET PRICES (Continued)

IRONMONGERY—Continued

	12in.	18in.	24in.	30in.	36in.
Tee hinges (japanned), per pair ..	2/-	3/10	—	—	—
Do. but stronger, per pair ..	3/4	6/1	8/3	—	—
Hook and Ride hinges, per pair ..	—	—	13/4	16/3	24/10
BOLTS—each—	3in.	4in.	6in.	8in.	10in 12in
Cabinet, barrel, straight or necked ..	1/4	1/7	2/1	—	—
Square spring, with brass knob ..	1/4	1/7	2/1	—	—
Tower bolts ..	—	1/7	2/3	3/-	3/9 4/6
Barrel bolts ..	—	2/7	3/9	4/10	6/3 7/7
Add to Tower or Barrel bolts if necked ..	—	1/4	1/4	1d	1d
LOCKS—each					
Rim lock, 2 lever, wrought brass bolt and bushing ..	11/9	—	—	—	—
Mortice lock, 2 lever, bushed ..	12/-	—	—	—	—
Cylinder latches, japanned case	—	—	—	—	15/-
Brass sash fastener ..	—	—	—	—	each 4/-
Casement fasteners (malleable) ..	—	—	—	—	do. 1/6
Do. stays (do.) ..	—	—	—	—	do. 2/-
Axle pulleys (brass face, iron wheel) ..	—	—	—	—	do. 4/4
Do. as last, but with brass wheel, 1 1/2in. ..	—	—	—	—	do. 5/5
Sash line, No. 8 Anchor yellow label ..	—	—	—	—	per yard 1/-

METAL GOODS

British rolled steel joists ex works to basis sections (6in x 5in, 8in x 5in or 6in, and 10in or 12in x 6in) ..	£33/10 0	per ton
Extra cost over basis for following sections:—		
9in or 18in x 7in, 14in x 5 1/2in, 15in x 5in, 14in or 15in or 16in or 18in x 6in, 20in x 6 1/2in, 20in x 7 1/2in, 10in or 12in or 14in or 18in x 8in ..	10/-	per ton
5in x 4 1/2in, 7in x 3 1/2in, 13in x 5in ..	15/-	do.
12in x 5in, 22in x 7in ..	20/-	do.
6in x 4 1/2in, 7in or 8in or 9in x 4in, 10in x 5in ..	25/-	do.
4in x 3in, 10in x 4 1/2in ..	30/-	do.
5in x 2 1/2in, 5in x 3in ..	35/-	do.
6in x 3in, 24in x 7 1/2in ..	40/-	do.
3in x 3in ..	50/-	do.
4 1/2in x 1 1/2in ..	65/-	do.
3in x 1 1/2in, 4in x 1 1/2in ..	70/-	do.
1/2 mild steel reinforcing rods ex mill ..	£34 0 0	do.
Extras per ton		
1/2in and 3/4in diameter in size ..	32/-	per ton
1/2in do. do. ..	32/-	do.
1/2in do. do. ..	49/6	do.
1/2in do. do. ..	67/-	do.
1/2in do. do. ..	87/-	do.
1/2in do. do. ..	124/6	do.
Extras for length		
5ft to 3ft ..	7/6	do.
3ft to 2ft ..	15/-	do.
2ft ..	22/6	do.
40ft to 45ft ..	15/-	do.
45ft to 50ft ..	22/6	do.
Bolts and nuts ..	85/-	per cwt
Trench covering, including trays 1 1/2in deep and rebated frames, 9in wide ..	20/6	foot run
Do., but 12in wide ..	22/-	do.
Do., but 14in wide ..	24/-	do.
Do., but 18in wide ..	31/6	do.

METAL SUNDRIES

Cast iron pavement light filled with 4in x 3in glass lenses ..	30/-	per ft super
1/2in wrought iron plate door in four panels with stiles and rails on both sides ..	45/-	do.
20 gauge galvanized iron trunking and straps ..	5/-	do.
24 gauge galvanized Tailboy 6ft high 9in diameter with 9in x 12in base ..	55/-	each

CHAIN LINK FENCING—

In 25 yards lineal rolls inclusive of line wire.

2in mesh	36	42	48	60	72
10 1/2 wire gauge ..	98/1	114/3	130/9	163/1	195/10
12 1/2 do. ..	68/11	80/6	91/10	114/9	137/9
14 1/2 do. ..	49/2	57/6	65/8	82/2	98/7

DOUBLE SOOT DOORS AND FRAMES—

Fitted with brass turnbuckle and cast key ..	9in x 9in	12in x 9in	14in x 12in
	18/-	26/6	46/-

SLIDING DOORS, GATES AND PARTITIONS—

Factory sliding doors in two leaves containing about 100 square feet with mild steel angle frames covered with 24 gauge corrugated galvanized sheeting and including hanging tubular track and gear complete ..	14/-	foot super
Factory entrance gates with mild steel frames clad with 2in mesh chain link complete ..	11/-	do.
Steel partitioning, glazed (rough cast) and stove enamelled ..	17/-	do.

STEEL ROOF LIGHTS—

Lanterns with vertical sides, and hipped roof, glazed with 1/2in cast glass and lead flashed ..	14/-	foot super
Skylights of similar construction (180ft super) ..	20/-	do.

HIGH GRADE DOMESTIC BOILERS

Coke Fed. Performance 20 to 40 gallons raised from 40°F to 140°F per hour as under.

TYPE	Plain cast iron black finish ..	£ s d
20 gallons per hour	15in wide, 23in high	7 3 3
	Ditto, in cream mottle finish including side jackets ..	10 3 6
25 gallons per hour	19in wide, 22in high	10 13 6
	Ditto in cream mottle with side jackets and base ..	15 13 9
40 gallons per hour	22in wide, 23in high	16 18 6
	Ditto in cream mottle all as last ditto ..	22 18 0

GAS, WATER AND STEAM TUBES

(From Standard List)

Internal Diameter—	1/2in	3/4in	1in	1 1/4in	1 1/2in	2in
Tubes .. per ft	4d	4 1/2d	5 1/2d	6 1/2d	9 1/2	1 1/4 1 1/4 1 1/4
Bends .. each	8d	9d	11d	1 1/2	1 7/8	2 1/4 3/2 5/2
Elbows, sq. do.	10d	11d	1 1/4	1 3/4	1 6	2 1/2 2 7/8 4/3
Do., round do.	11d	1 1/4	1 1/2	1 5/8	1 8	2 1/4 2 10/16 4/8
Tees .. do.	1 1/4	1 1/4	1 3/4	1 7/8	1 10	2 6 3 1 5/1
Crosses .. do.	2 1/2	2 1/2	2 9/16	3 3/4	4 1	5 6 7 10 16
Backnuts .. do.	2d	2d	3d	3 1/2d	5d	6d 8d 1 1
Sockets .. do.	3d	3d	4d	5d	6d	8d 10 1 1/2
Sockets, dimin. do.	4d	5d	6d	7d	9d	1 1/4 2 1/2

PERCENTAGES ON OR OFF ABOVE

In quantity and in random lengths.

TUBE—

Class A (light)	—18%	Black	+ 2%	Galvanized
Class B (medium)	— 8 1/2%	Do.	+12%	Do.
Class C (heavy)	+ 3%	Do.	+30%	Do.

FITTINGS—

Lightweight	+18%	Black	+30%	Galvanized
Heavy	+26%	Black	+40%	Do.

RAINWATER GOODS (Painted or Unpainted)

In consignments of 5 cwt. and over.

From Standard List.

Pipe:	2in	3in	4in	5in	6in
6ft lengths ..	12/10	14/5	18/11	24/8	31/6
3ft do ..	7/-	7/9	10/-	13/1	16/6
Shoe, ordinary ..	2/7	3/10	5/7	9/5	12/11
Bend ..	3/1	4/4	6/3	11/3	14/7
Branch, single ..	4/6	6/7	9/3	14/7	22/6
Offset, 4 1/2in ..	3/9	5/3	7/9	12/11	17/-
Do. 9in ..	4/11	6/6	9/8	15/3	19/3
H.R. gutter, 6ft length ..	—	6/-	8/5	10/4	13/10
Angle or nozzle ..	—	2/6	3/1	3/9	5/4
Stop end ..	—	9d	1/1	1/5	1/9

Above plus 2 1/4%

CURRENT MARKET PRICES (Continued)

PLASTERING MATERIALS

Sand, lime, cement and various plasters are previously included under those heads—

Metal lathing (1" x 24G) (20 yards)	..	3/3	sq yard
Plaster baseboard, 1/2" (300 to 599 yards)	..	2/5	do.
Lath nails, galvanized	..	1/1	lb
White glazed tiles (6" x 6" x 1/2")	..	17/9	sq yard
Do. rounded on one edge	small	21/3	do.
Do. on two adjoining edges	quantity	26/-	do.

PLUMBER'S GOODS

4 lb lead sheet (in 1-ton lots)	..	140/3	per cwt
Lead water pipe in coils (do.)	..	141/6	do.
Plumber's solder	..	3/6	lb
Copper tacks	..	6/9	do.

IRON SOIL AND WASTE PIPE. (5cwt lots and up)

each	2in	3in	3 1/2in	4in
1/2in Medium pipe, 6ft length	14/6	17/2	19/3	21/11
Ditto, 4ft length	10/5	12/2	13/7	15/5
Bends	5/4	6/6	8/1	9/1
Ditto, with oval door	17/4	18/6	21/1	24/7
Juncton, single	6/6	9/8	11/3	13/3
Ditto, with oval door	18/6	21/8	24/3	26/3
Swan necks, 4 1/2in	6/6	10/3	11/9	13/9
Ditto, 9in	8/8	11/9	13/9	16/1
Holderbat, 2 1/2in projection	4/11	5/1	5/4	5/6

Above plus 2 1/2%

GALVANIZED CISTERNS, TANKS AND CYLINDERS—

(Less than four)

each	gallons
CISTERNS—	
Bends over tops and corner plates. Riveted or welded	Nominal capacity
	100 150 200 300
14 gauge	171/6 234/- 283/- 405/-
12 ditto	199/- 253/- 312/- 436/-
1/2in plate	235/11 296/- 355/- 499/-

HOT WATER TANKS—

Riveted and with handhole and ring.	20 25 30 40
12 gauge	118/6 131/- 143/6 171/6
1/2in plate	131/- 143/5 156/- 190/5

HOT WATER CYLINDERS—

Riveted, with handhole and ring.	20 25 33 39
12 gauge	151/6 165/6 181/6 196/-
1/2in plate	169/- 187/- 204/6 218/-

PLUMBER'S BRASSWORK, etc.

Each	2in	3in	4in	5in
Boiler screws, single nut	1/7	2/1	3/5	5/1
Ditto, double nut	2/2	2/10	4/8	6/10
Cap and lining	1/2	1/7	2/-	2/3
Plumber's unions	2/6	3/2	4/5	7/10
Ball valves, screwed iron	16/-	22/-	—	—
Ditto, fly nut and union	17/-	23/6	—	—
Bib valves, crutch top	—	—	—	—
screwed iron	10/9	15/-	—	—
Ditto, but screwed boss	11/10	16/8	—	—
Stop valves, screwed iron	9/3	13/-	—	—
Ditto, screwed iron and union	11/3	16/3	26/-	—
Ditto, double union	11/9	17/-	27/6	—
Waste, plug chain and stay	—	—	8/-	9/-
1 1/2in	1 1/2in	2in	4in	—
Caps and screws	2/9	3/3	5/-	—
Sleeves, long	—	—	7/4	12/6
Ditto, short	—	3/8	4/3	10/6
Thimble	—	4/-	5/-	10/7
Full way gate valves, hot pressed	21/-	29/6	—	—
1 1/2in	1 1/2in	2in	4in	—
Lead 7 lb P. trap	6/11	9/1	12/10	—
Ditto, S. trap	8/7	11/3	15/9	—
Lead 6 lb P. traps with 3in seal	—	7/9	9/4	—
Ditto, but S. traps ditto	—	9/7	11/9	—
Wire balloon guards, copper, 2in 3/-; 4in 3/3.	—	—	—	—
Ditto, galvanized iron, 2in 1/10; 4in 2/-.	—	—	—	—
Hair felt, 3 1/2in x 20in, 24 oz, 6/- sheet.	—	—	—	—
Boss white jointing compound, 2/- lb.	—	—	—	—
Gaskin, 1/5 1/2 lb. Hemp, 7/3 lb.	—	—	—	—

COPPER TUBES—Extract from B.S. 659/1944—

Nominal bore	Outside diameter inch	Gauge	Weight lb per ft	Price per lb pence	Price per ft pence
1/2in	0.596	19	0.27	52 1/2	14.01
3/4in	0.846	19	0.39	50 1/2	19.75
1in	1.112	18	0.62	49 1/2	30.46
1 1/4in	1.362	18	0.76	48 1/2	36.86
1 1/2in	1.612	18	0.91	48 1/2	44.14
2in	2.128	17	1.40	50 1/2	70.18

CAPILLARY TYPE CONNECTIONS—

Each	1/2in	3/4in	1in	1 1/4in	1 1/2in	2in
Straight	1/9	2/5 1/2	3/10 1/2	5/1	6/10	9/9 1/2
Bends	4/6 1/2	5/7 1/2	8/1	11.1	17/4	24/4
Tees	4/2 1/2	4/11	7/11	11/7	16/6	24/4
Brackets (Brass)	2/2 1/2	2/4 1/2	2/7 1/2	—	—	—

GLASS

	Per foot superficial 24 oz.	26oz.	32oz.
English, flat drawn sheet glass cut to sizes in squares	7 1/2d.	10d.	1/1
Figured rolled and cathedral, white, cut to sizes, in squares (1/2in)	9d.	Per foot super	
Ditto, but in standard tints	1/4 1/2	do.	
1/2in Rolled, cut to size, in squares	9d.	do.	
1/2in or 3/4in in rough cast ditto	1/-	do.	
1/2in ditto wired ditto	1/2	do.	
Georgian wired ditto	1/2 1/2	do.	
Fluted (No. 4) ditto	1/3	do.	
Reeded (narrow, broad, cross and major) ditto	1/1	do.	
Reedylite (narrow and broad) ditto	1/1	do.	
Spotlyte ditto	1/1	do.	
1/2in Calorex Cast ditto	1/2 1/2	do.	
Calorex Sheet (15oz.)	6/6	do.	
ditto (21oz.)	9/-	do.	
Flashed Opal (15/18oz.)	3/10	do.	
Pot Opal (15/18oz.)	3/9	do.	

POLISHED PLATE GLASS (Tariff) Cut to sizes.

Ordinary substance 1/2in and 1/2in thick.

Per Superficial foot.

General Glazing

In plates not exceeding:	
2ft super in each	3/7
5ft ditto	4/5
45ft ditto (unless extra sizes)	5/1
100ft ditto (ditto)	5/6
Extra sizes, i.e., Plates exceeding 100ft super or 96in high or 160in one way or 96in both ways at higher prices.	

DECORATING MATERIAL

	Price	Unit
Aluminium Paint	37/6	Gallon
Distemper, ceiling	35/-	Cwt
Distemper, washable	120/-	Gallon
Enamel	60/-	do.
Gold Metallic Paint	86/6	do.
Heat Resisting Paint	50/-	do.
Japan, black	23/6	do.
Knotting	40/-	do.
Linseed Oil	13/6	do.
Boiled, ditto	14/-	do.
Proprietary Paints (good class)—		
Finishing	47/-	do.
Priming	50/-	do.
Undercoat	53/-	do.
Paperhanger's Paste	34/6	Cwt
Petrifying liquid	8/9	Gal'on
Putty	51/-	Cwt
Size	9/3	Firkin
Terebine	16/-	Gallon
Turpentine substitute	6/3	do.
Varnish, oak, copal, inside use	33/-	do.
Ditto, ditto, outside use	38/-	do.
Ditto, white, eggshell, flat	44/6	do.
White lead mixed paint	62/-	do.
White lead	178/-	Cwt
Whiting	12/6	do.

No Dotheboys Hall here...



Ilkley Primary School,

Hubert Bennett, Esq., F.R.I.B.A.,
County Architect,
West Riding of Yorkshire

Accotile Specialist Contractors:
Messrs. T. K. Yeates and Hanson Ltd.,
Leeds.

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It can be laid on screeded concrete in contact with the ground.

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Marlequin

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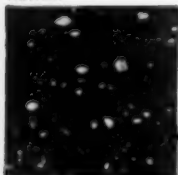
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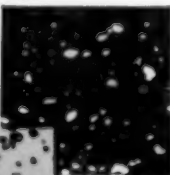
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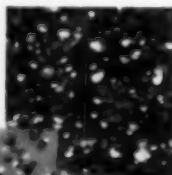
HB.1
FANTASY



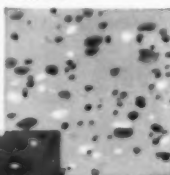
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GALA



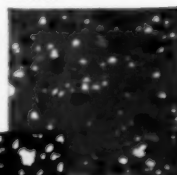
HC.12
FIESTA



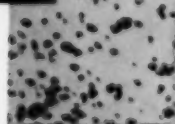
HD.21
MAYPOLE



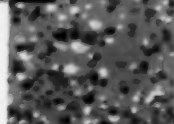
HD.17
MOTLEY



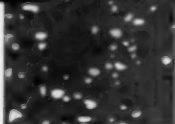
HD.22
BIG TOP



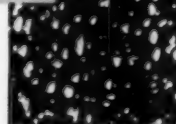
HD.26
CAROUSEL



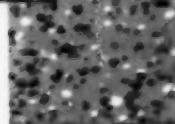
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CAREFREE

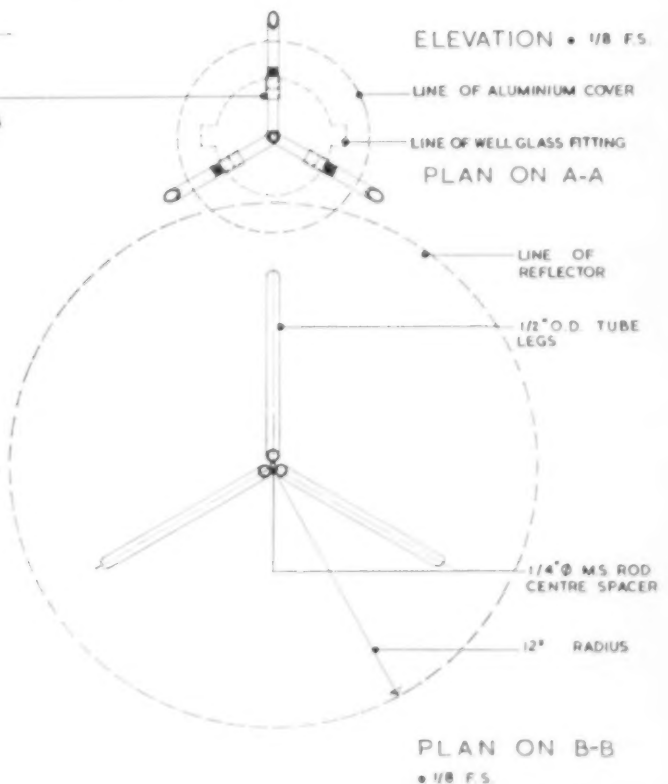
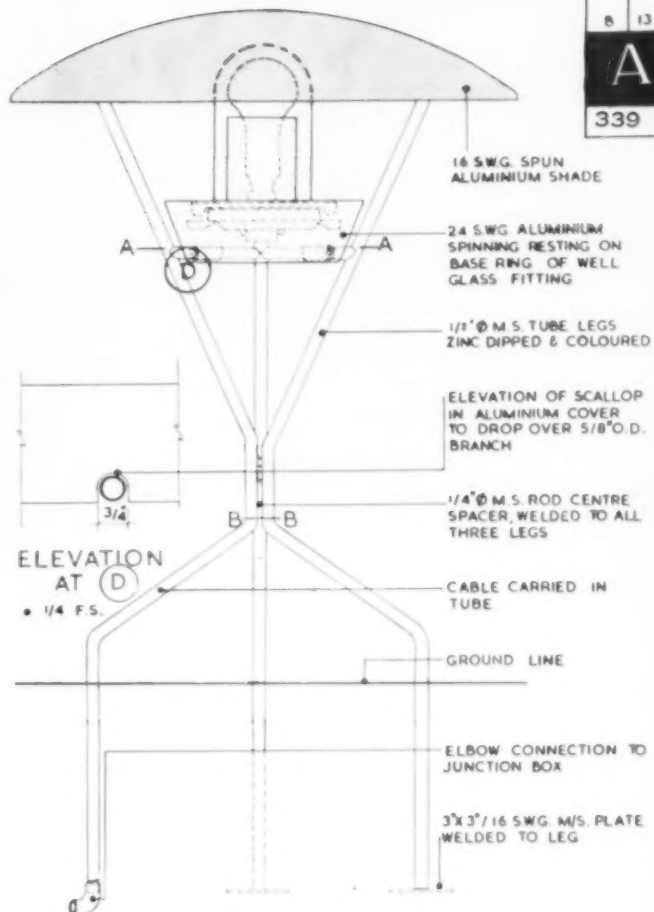
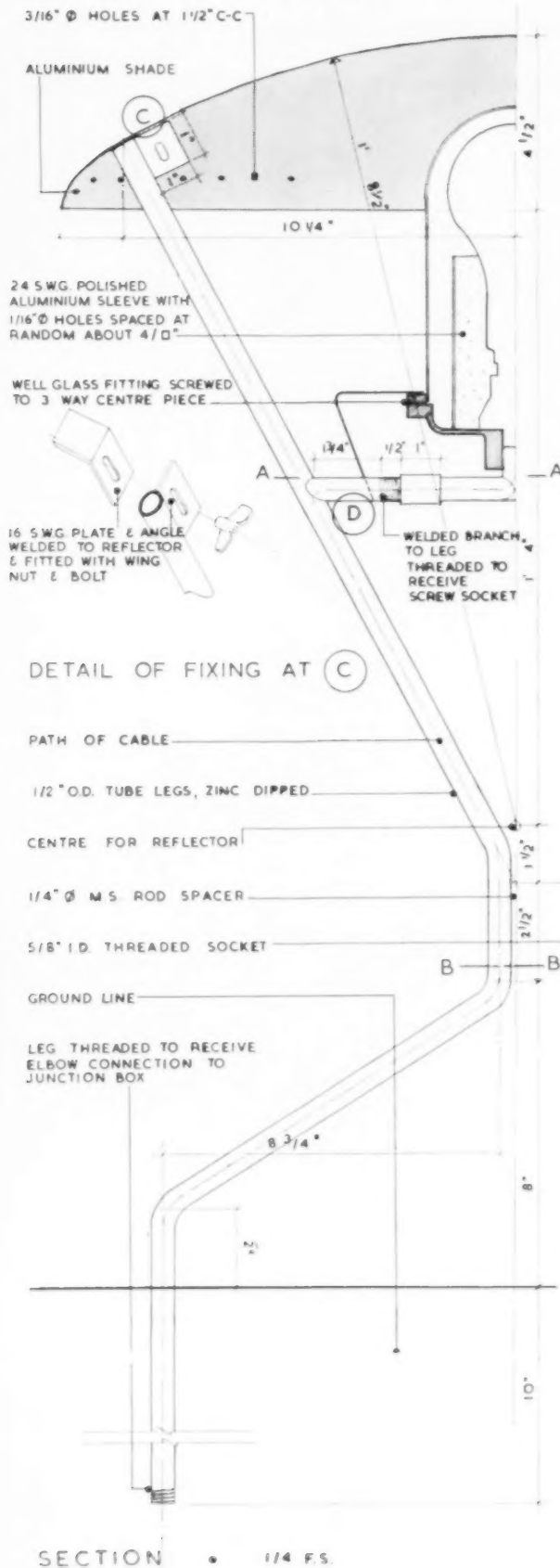


HB.2
SPOTLIGHT



HC.11
CARNIVAL







LAMP, OFFICE EXTENSION, BATH ROAD, MIDDLESEX
DESIGNERS: GOODAY & NOBLE

DOMESTIC KITCHEN PLANNING

THE ESSENTIAL REQUIREMENTS

Kitchen planning is no longer a novelty: it is not just a matter of ordering a sink unit, cupboards and appliances; nor is it a complicated exercise in traffic routes, storage accommodation and plumbing. It consists primarily in providing a simple rectangular room with adequate windows and the minimum number of doors arranged to give as much continuous unbroken wall space as possible. Unless this is done the necessary appliances cannot be installed in the correct relationship, and the housewife will be unable to make the best use of them.

The Grouping of Equipment

Consider first the work that is carried out in an ordinary kitchen in connection with meals. Food is brought in, sorted and stored in the refrigerator (or larder), grocery cupboard, vegetable rack and so on. When a meal is required, the food is taken from storage, prepared, cooked and served to the dining table; the necessary plates, dishes and utensils being kept conveniently nearby. The used articles are returned after the meal, washed up, and put away.

These operations require a basic grouping of storage space, work counters and appliances, represented in the simplest possible way in Fig. 1. This arrangement is not a matter of individual preference or a few bright ideas, but is based on the outcome of much research and wide experience. Each group is centred on a major appliance and contains the related work counters and storage accommodation—the dominant appliances being the cooker, refrigerator and sink.

The cooking and washing-up groups should always be next to each other, the food preparation group being within easy reach of both, all being provided with good natural lighting and, as far as possible, being self-contained.

The Space Required

The provision of the requisite lengths of unbroken wall space depends on the position of doors and windows in relation to each other and to the adjacent corners of the kitchen. Lack of attention to these points will make a room of adequate area totally unsuitable for a kitchen, as may be seen from Figs. 2 and 3a. The first example is in an existing house, and nothing can be done to obtain a workable layout: nothing could turn this into a "labour-saving kitchen". The second example, Fig. 3a, shows a kitchen in its original form: in this case it was possible to make the necessary revisions to door and window positions before the house was built, without increasing the floor area or the cost (Fig. 3b). These two diagrams show how the available area of useful wall and floor space is increased when the doors and windows are correctly placed. Fig. 4 shows the same kitchen fully equipped.

From these examples it can be seen that:

- Doors and windows must not be placed in the four corners of the room (or even in three).
- The distance from door or window jamb to the return wall is critical.

Door and window jambs should be 1 ft. to 1 ft. 3 ins. from the return wall, according to the detailing of frame and architrave, to allow a standard shallow cupboard (1 ft. deep) to go right up to the end wall; alternatively the distance should be increased to 1 ft. 9 ins. or 2 ft. if a standard deep cupboard or working counter is to be accommodated. If a free-standing refrigerator is to be placed in a corner as in Fig. 4 the distance required from door jamb to return wall or partition will not exceed 2 ft. 6 ins. even for large models (see R.1). The only other major appliance likely to be stood in a corner in this way is a washing machine (see E.L.1): 2 ft. 3 ins. should be regarded as the distance to accommodate both standard and automatic types.

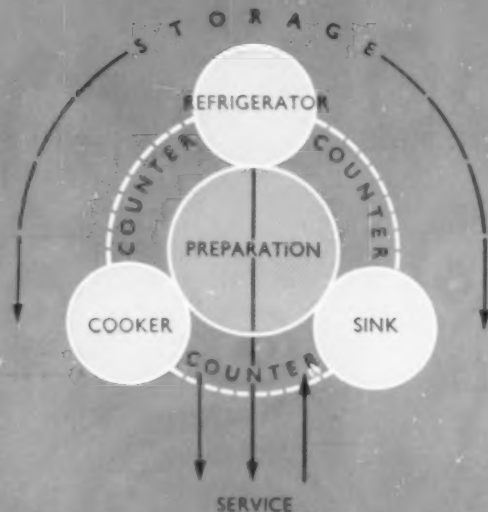


Fig. 1 Basic grouping of equipment

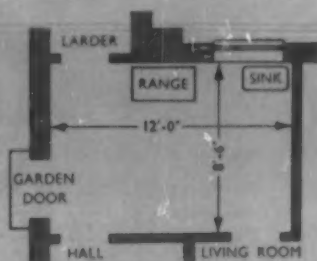


Fig. 2 Kitchen as existing

SCALE: 8 FEET EQUALS 1 INCH

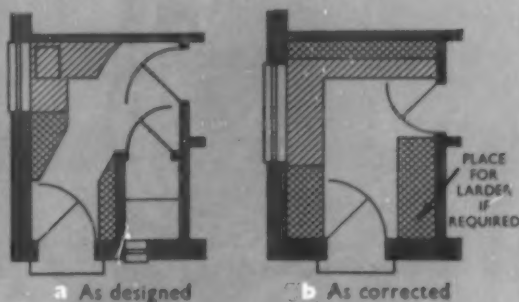


Fig. 3 A kitchen replanned

SCALE: 8 FEET EQUALS 1 INCH

- Hatched areas = space available for 3 ft. high fittings
- Cross-hatched areas = space available for full height cupboards

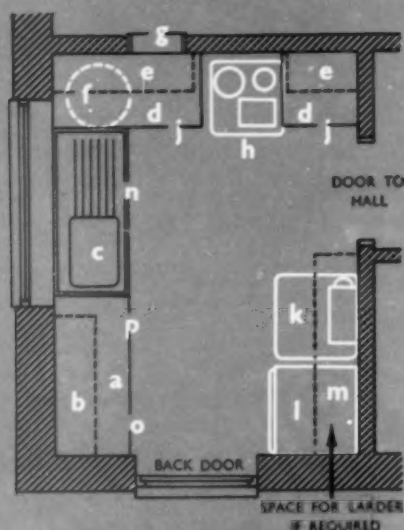


Fig. 4 L-shaped layout

SCALE: 4 FEET EQUALS 1 INCH

See also Figs. 3a and b

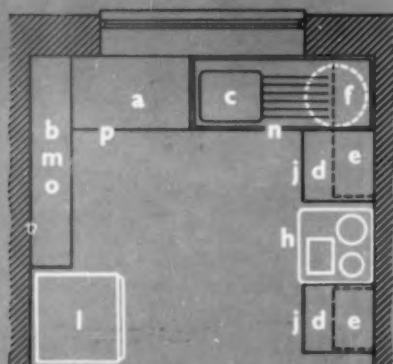


Fig. 5 U-shaped layout

SCALE: 4 FEET EQUALS 1 INCH

See also Figs. 3a and b

Key to Figs. 4 and 5

- | | |
|-----------------------------------|---------------------------|
| a Preparation counter | h Cooker |
| b Ventilated food store over | j Pans and utensils under |
| c Sink | k Washing machine |
| d Service and dishing-up counters | l Refrigerator |
| e China and glass stores over | m Grocery store |
| f Water heater under | n Garbage can under sink |
| g Service hatch | o Vegetable store under |
| | p Space for chair |

In all cases the actual dimensions of the major appliances to be used should be ascertained at an early stage of the planning of any small kitchen. Both sink units and cookers can be obtained which project only 1 ft. 6 ins., a depth which is also satisfactory for work counters provided the length is adequate and that they are not overhung by upper cupboards.

Doors and Access to Storage Space

In all cases the floor and wall space taken up by the swing of room and cupboard doors should be taken into account, and in small kitchens, should be actually drawn on the plan. Cooker oven doors are hinged on the left (unless of the drop-down type); refrigerator doors, on the right. The kitchen door should open directly into the room, otherwise space may be wasted by having to walk round the opening door as in Fig. 3a.

Wide cupboard doors are a nuisance in small kitchens, especially when the cupboards are above working counters, as the user has to step back every time a door is opened: consideration should be given to sliding doors and the tambour or roller shutter. The storage capacity of a cupboard is frequently determined by ease of access: reaching over and stretching or bending to get at the contents should not be necessary (see R.1).

If a larder is required, the old-fashioned "walk in" type should be avoided; it wastes a considerable floor area as generally built with a deep and wide slate or concrete shelf. As articles requiring low temperature storage will be kept in a refrigerator, the larder should be considered as a ventilated food store rather than a refrigerator-substitute, and designed as such with shelves 1 ft. deep and full access from top to bottom, occupying only a fraction of the space usually taken up by the traditional larder.

The Relation Between the Three Groups

With the appliances and equipment in a straight line, the classic order is Preparation — Cooker — Sink. The straight line is however rarely used, the U shape being preferred as more compact and involving less walking about, although in practice it often brings the cooker under the window, where the interior of the oven may not be well lighted. This difficulty is removed by changing over the positions of the sink and the cooker, placing the sink next to the preparation counter and the cooker on the side wall as shown in Fig. 5.

The result is a very efficient kitchen which is large enough for most families of 5 or 6 and which can be planned within a surprisingly modest area, provided the room doors are all kept clear of the U. It has provided the basis for many successful designs (see L.4 and E.L.1, Figs. 1 and 3) particularly where economy is an important consideration.

In many cases the wall space available is confined to two adjacent walls with perhaps a third area separated from the remainder by doors (as in Fig. 3b). This need not be a serious disadvantage, provided the two adjacent walls allow enough space to accommodate the three major appliances and the working counter space that goes with them, as shown in Fig. 4. A further requirement is that the major part of the storage accommodation should also be included, so that the remainder which occupies the third area is kept to the minimum but remains within one step of the preparation counter. On no account should a door come between the preparation counter, sink, and cooker, neither should cooker or sink unit be isolated: if the plan appears to require this, it is the plan that must be revised as no arrangement of the appliances under these conditions will be satisfactory.

Further aspects of kitchen planning will be discussed in subsequent sheets.

For further details apply to:

KP. 1 British Electrical Development Association

2 Savoy Hill, London, W.C.2. Temple Bar 9434.

Notes below give basic data of contracts open under locality and authority which are in bold type. References indicate: (a) type of work, (b) address for application. Where no town is stated in the

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BOURNEMOUTH B.C. (a) 2 pairs of police houses, Baker Road, West Howe. (b) Borough Architect, Room 106, Town Hall. (c) 2gns. (e) July 23.

BRIGHTON B.C. (a) Fire station, Redean Road. (b) Borough Engineer, 26-30, King's Road. (c) 3gns. (e) July 26.

CEIRIOG R.C. (a) 6 precast concrete garages at Rhosywaen, Chirk. (b) Council's Surveyor, The Mount, Chirk. (c) 2gns. (e) July 16.

CLOWNE R.C. (a) 4 blocks of flats and 4 garages, Station Road, Whitwell. (b) Council's Clerk, Council Offices, Clowne, Nr. Chesterfield. (c) 3gn cheque payable to Council. (d) July 9.

CUMBERLAND C.C. (a) Alterations at Grecian Villa, Cockermouth, to form offices and stores for County Fire Service. (b) County Architect, 15, Portland Square, Carlisle. (e) July 18.

DENBIGH B.C. (a) Erection of 24 houses, together with siteworks, roads and sewers, Henllan. (b) Messrs. G. Parry Davies and S. Powell Bowen, 4, Vale Street. (c) 2gn cheque payable to Council. (d) July 9. (e) July 29.

EAST GRINSTEAD U.C. (a) 24 dwellings, Buckhurst Way. (b) Council's Clerk, Council Offices, East Court. (c) 3gn cheque payable to Council. (d) July 9.

EIRE—DUBLIN PORT AND DOCKS BOARD. (a) Erection in precast and *in situ* reinforced concrete and in precast prestressed concrete of a new warehouse, 500ft long, 150ft wide and about 50ft high, in the Custom House Docks, Dublin. (b) Engineer's Office, East Wall Road, Dublin. (c) £100. (e) Sept. 7.

ELY U.C. (a) 8 blocks of 4 flats, in 2 contracts of 16 flats each, New Barns Estate. (b) Council's Engineer, Council Offices, Lynn Road, Ely, Cambs. (c) 3gns. (e) July 16.

FAREHAM U.C. (a) 4 blocks of 4 flats, Church Road, Warsash. (b) Council's Engineer, Westbury Manor. (c) 2gns. (e) July 27.

GILLINGHAM B.C. (a) 100 dwellings, Twydall Estate. (b) Borough Engineer, Municipal Buildings. (c) 5gn cheque payable to Council. (e) July 23.

HARTISMERE R.C. (a) Erection of 1 pair of houses and 1 block of 3 garages at Westhorpe, 1 pair of bungalows and public footpath at Mendham, and 3 pairs of houses and public footpath at Mendlesham Street. (b) Housing Department, Lambeth Street, Eye, Suffolk. (c) 2gns each scheme. (e) July 15.

address it is the same as the locality given in the heading, (c) deposit, (d) last date for application, (e) last date and time for submission of tenders. Full details of contracts marked ★ are given in the advertisement section.

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LEEDS REGIONAL HOSPITAL BOARD. (a) House for the Resident Medical Officer at Woodlands Hospital, Rawdon, near Leeds. (b) Board's Architect, Park Parade, Harrogate. (c) 2gns. (e) Aug. 10.

LONDON—INDUSTRIAL ORTHOPÆDIC SOCIETY. (a) New out-patients' department at the Manor House Hospital, North End Road, N.W.11. (b) The Secretary, Manor House Hospital, Golders Green, N.W.11, together with a statement of work recently carried out. (d) July 12.

MACCLESFIELD B.C. (a) Erection of (Scheme 11.D) 7 bungalows and 8 bungalows; (Scheme 11.E) 19 houses with garages, 3 houses with garages, and 7 houses with garages, and 4 bungalows; (Scheme 11.F) 8 houses, and 6 houses; (Scheme 11.G) 10 houses, 2 houses, and 12 flats; (Scheme 7.Q) 8 bungalows. (b) Borough Architect, 3, Jordangate. (c) 1gn each scheme. (e) July 25.

MILFORD HAVEN U.C. (a) 21 houses, 2 flats and 4 shops, Marble Hall Road. (b) Council's Engineer, Town Hall. (c) 2gns. (e) July 16.

MORECAMBE AND HEYSHAM CORPORATION. (a) Erection of reinforced concrete shell cantilever canopy to harbour band area, consisting of 18 bays, 18ft x 34ft overhang with ancillary shelters, booking offices, drainage and general site works. (b) Borough Engineer, Town Hall. (c) 2gns. (e) July 26.

NEWCASTLE-UPON-TYNE C.C. (a) 33 flats and maisonettes in the Hill Street clearance area, Newcastle-upon-Tyne. (b) City Architect, 18, Cloth Market, 1. (e) July 28.

NORFOLK C.C. (a) New police station with 2 houses attached, together with a magistrate's court building, at Fakenham. (b) County Architect, 27, Thorpe Road, Norwich. (d) July 12.

NORFOLK E.C. (a) Erection of (1) Fakenham secondary school, (2) Thorpe secondary school, (3) Thorpe grammar school, and (4) Wymondham girls' secondary school. (b) Chief Education Officer, County Education Offices, Stracey Road, Norwich. (d) July 13.

N. IRELAND—ANTRIM C.C. (a) County library headquarters at the Demesne, Ballymena. (b) Messrs. Ogilby and McCutcheon, 5, Lombard Street, Belfast. (c) 5gns. (e) July 25.

N. IRELAND—BELFAST C.C. (a) Erection of 2 houses, entrance gates, walling and piers at Roselawn Cemetery, Crossnacreevy. (b) City Surveyor, Architectural Section, Room 85, City Hall. (c) 2gns. (e) Aug. 10.

NORTHUMBERLAND C.C. (a) Pair of dwelling houses for police with a police office combined, Newham, Blyth. (b) County Architect, County Hall, Newcastle upon Tyne, 1. (d) July 11.

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NOTTINGHAMSHIRE C.C. (a) Police houses in the Nottingham district. (b) County Architect, County Hall, Trent Bridge, Nottingham. (c) 2gns. (d) July 11.

PETERBOROUGH JOINT EDUCATION BOARD. (a) Erection of 2 changing-rooms with showers and ancillary accommodation, with the provision of all services, at Grimshaw Road playing field. (b) Board's Surveyor, Town Hall. (c) 2gns. (e) July 22.

RUSHDEN U.C. (a) 7 brick garages, Blinco Road. (b) Council's Engineer, Council Offices. (e) July 19.

ST. THOMAS R.C. (a) Erection of 6 bungalows at Alphonston and 4 bungalows and 4 houses at Greenhill, Lymington. (b) Messrs. Lucas, Roberts and Brown, Barnfield Hill, Exeter. (e) July 20.

SCOTLAND—MUSSELBURGH CORPORATION. (a) Reconstruction of 12 houses, Millhill Square. (b) Burgh Surveyor, Municipal Offices. (e) July 25.

SHEFFIELD C.C. (a) Erection of Abbeydale Grammar School for Boys, Abbeydale Road. (b) City Architect, Town Hall, 1. (c) £2. (e) July 22.

SHIPLEY U.C. (a) Block of 4 shops and maisonettes, together with attendant site works, Coach Road Estate, Baildon. (b) Council's Engineer, Town Hall. (c) 5gns. (e) July 16.

SUNDERLAND B.C. (a) Erection of a drill and hose tower at the Fulwell Fire Station, Sunderland. (b) Borough Architect, Grange House, Stockton Road. (c) 2gns. (e) July 29.

SWAFFHAM R.C. (a) Erection of 4 bungalows and 6 bungalows at Spore. (b) Mr. W. A. J. Spear, 36, Cattle Market Street, Norwich. (c) 2gns. (e) July 21.

TUNBRIDGE WELLS. (a) Erection of shops at 33, Mount Pleasant. (b) Messrs. A. Hargreaves and Partners, 17, Crook Log, Bexleyheath. (e) Aug. 9.

WALSALL B.C. (a) Erection of (Contract No. 4) 30 houses, (Contract No. 5) 28 houses and (Contract No. 6) 48 houses, Mossley Estate. (b) Borough Engineer, Council House. (c) 2gns. (e) Aug. 8.

WANTAGE R.C. (a) 16 houses at East Hendred. (b) Council's Clerk, Council Offices, Belmont, Wantage. (c) 2gns. (e) July 16.

WEST BROMWICH B.C. (a) Erection of buildings in connection with Ray Hall Sewage Works. (b) Borough Engineer, Town Hall. (d) July 15.

WEST RIDING C.C. (a) Erection of a new playroom at "Fairholme" Children's Home, Knaresborough. (b) County Architect, "Bishopgarth," Westfield Road, Wakefield. (e) July 19.

WOKINGHAM R.C. (a) Block of 4 houses, block of 6 houses, block of 2 and 4 houses, block of 8 and 7 flats, on the Penn Fields estate, Ruscombe. (b) Eric G. V. Hives, 3, Cork Street, Reading. (c) 2gns. (e) July 25.

WOLVERHAMPTON B.C. (a) 1 pair of police houses at Aldersley Road and 1 pair at Oxley Moor Road. (b) Borough Engineer, Town Hall. (c) 2gns. (d) July 9.

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NUNEATON B.C. (1) Alderman Smith School. (3) Alfred Lane, Ltd., Coventry. (4) £196,237.

SURREY C.C. (1) Secondary school. (2) Sutton and Cheam. (3) Norman Sinclair, Ltd., 80, Uxbridge Road, London, W.13. (4) £96,724.

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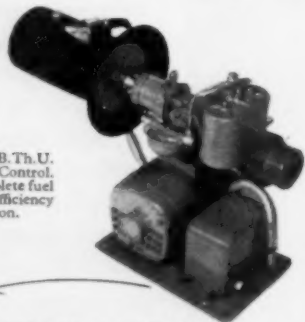
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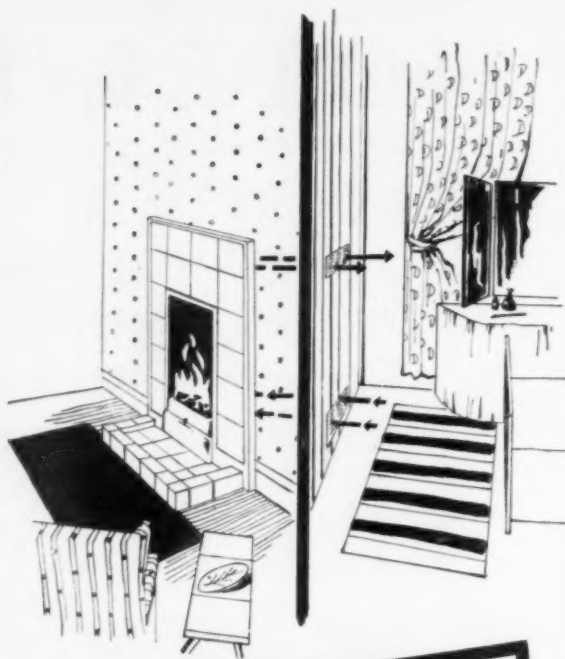
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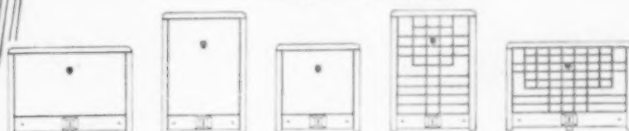


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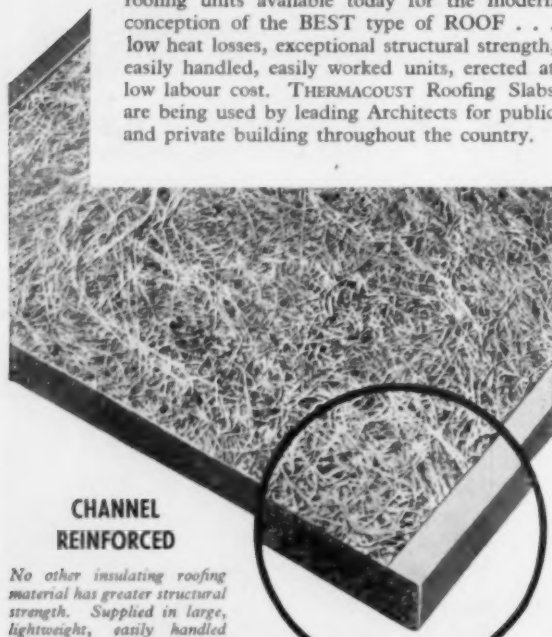
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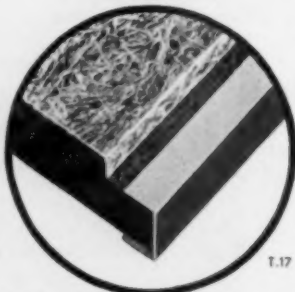


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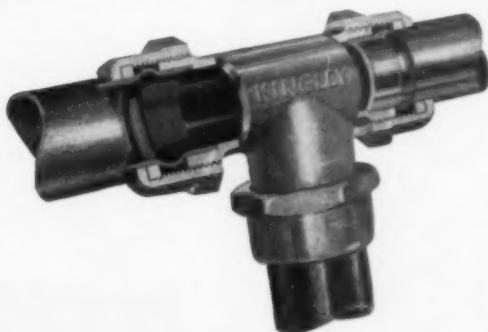
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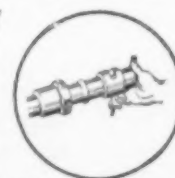
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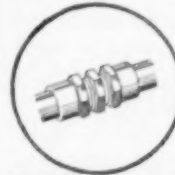
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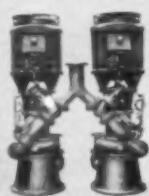


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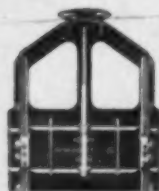
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Further particulars and application forms may be obtained from

The Secretary (J),
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Telephone: WELbeck 9966.

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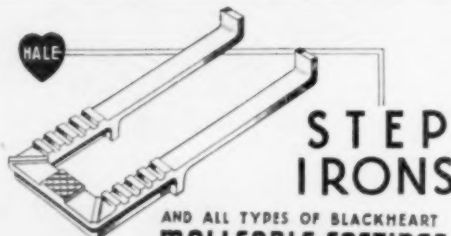
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APPOINTMENTS

The engagement of persons answering these advertisements must be made through the local office of the Ministry of Labour and National Service, etc., if the applicant is a man aged 18-64 or a woman aged 18-59 inclusive, unless he or she or the employer is exempted from the provisions of The Notification of Vacancies Order, 1952.

OFFICE OF THE RECEIVER FOR THE METROPOLITAN POLICE DISTRICT.

APPLICATIONS are invited for unestablished appointments as Architectural Assistants (New Works and Maintenance Branches) and also as Sanitary Engineering Assistants in the Chief Architect and Surveyor's Department.

Rates of Pay £442 10s (age 21) by annual increases to £695 (men) and £442 10s by annual increases to £615 (women). Overtime of approximately £24 per annum is also payable while a 45-hour week is worked.

Conditioned hours 44 per week. Annual Leave 24 days.

Application forms from the Chief Clerk, Architect and Surveyor's Department, New Scotland Yard, S.W.1, stating for which drawing office appointment is made. [0958]

LONDON BRICK COMPANY, LIMITED.

APPLICATIONS are invited for the following positions in the Estates Department, Stewartry, Bedford:—

- (a) ASSISTANT ARCHITECT.
- (b) ASSISTANT BUILDING SURVEYOR.
- (c) ARCHITECTURAL DRAUGHTSMAN.

It will be an advantage if applicants for position (a) are A.R.I.B.A. and for position (b) are A.R.I.C.S. (Building Division).

A house and a flat are at present available in or near Stewartry.

Applications, giving details of training, age, qualifications, experience and stating salary required, should be submitted as soon as possible to the Personnel Manager, Stewartry, Bedford. [1245]

BOROUGH OF ELLESMERE PORT.

APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT.

APPLICATIONS are invited from qualified and experienced men for the above appointment on the permanent salaried staff of the Borough Engineer and Surveyor. Applicants must have had considerable experience in design and construction, particularly in relation to housing. The weekly tenancy of a Council House will be offered to the successful candidate on appointment if he reasonably requires housing accommodation.

Applications, stating age, qualifications, experience and salary required, on a form to be obtained from the Borough Engineer and Surveyor, must reach me by not later than Saturday, July 16, 1955.

P. J. HODGES,
Town Clerk.

Municipal Offices,
Ellesmere Port.
June 29, 1955. [1262]

BRACKNELL DEVELOPMENT CORPORATION.

APPLICATIONS are invited from Corporate Members of the R.I.B.A. for the post of ASSISTANT ARCHITECT, GRADE IV—Salary £710 x £40(6) x £10(1)—£960.

Superannuation scheme, medical examination. Housing available in due course. Apply by July 22 giving age, education and qualifications; experience and appointments held (with dates and salaries) and names of two referees to the General Manager (A.A.), Bracknell Development Corporation, Farley Hall, Bracknell, Berks. [1276]

APPOINTMENTS—contd.

BOROUGH OF MARGATE.

ARCHITECTURAL ASSISTANT.

APPLICATIONS are invited from candidates having passed the Final Examination of the R.I.B.A. for the above position in the Borough Engineer's Office. Salary (special classes of officers)—£650-£775 per annum. The Council will endeavour to assist with housing accommodation. Full particulars can be obtained from Mr. W. L. Armstrong, B.Sc., Borough Engineer, 38, Grosvenor Place, Margate.

T. F. SIDNELL,
Town Clerk.

Town Clerk's Office,
40, Grosvenor Place,
Margate.
30th June, 1955. [1259]

SOUTH WALES ELECTRICITY BOARD require Architectural Draughtsmen in the Civil Engineering Department, Head Office, St. Mellons. Applicants should be capable of undertaking the layout and preparation of working drawings for showrooms, offices and sub-stations, including measuring up and alterations to existing buildings.

Salary—Grade 6 (£510/£630) of Schedule "D" of the N.J.B. Agreement.

Applications, stating age, present position, present salary, qualifications and experience and three referees, should be addressed to the Secretary to arrive not later than July 16, 1955.

D. G. DODDS, Secretary. [1273]

St. Mellons,
Cardiff.

IMPERIAL CHEMICAL INDUSTRIES, Limited, Billingham Division, has a vacancy at Billingham for a qualified Assistant for supervision on the construction of a number of buildings. Age range 30-40. Candidates should be Corporate members of the Royal Institution of Chartered Surveyors, Building Section, or have a similar qualification. They must also have considerable experience on site supervision of all trades and of looking after building contracts; capable of achieving first quality finished work. Attractive conditions of employment are offered. Write, without commitment, for Application Form, to the Staff Manager, Imperial Chemical Industries Limited, Billingham Division, Billingham, Co. Durham, quoting advertisement reference R.5. [1265]

FEDERAL GOVERNMENT OF NIGERIA.

ARCHITECTS—PUBLIC WORKS DEPARTMENT.

DUTIES include the preparation of sketch plans, working drawings and detailed specifications for various types of buildings and the carrying out of the general work of a very busy Architectural Office.

Appointments are on contract in the salary range £1,116 to £1,898 per annum; plus a gratuity of £150 per annum on satisfactory completion of contract.

Free first class passages are granted for the officer and his wife and assistance up to £75 each for a maximum of two children is granted in respect of their passages or maintenance in the United Kingdom. Government quarters, if available, are provided at a rental of 10 per cent of basic salary. Leave is granted at rate of 7 days for each month of resident service in a tour of 18-24 months.

Candidates should be A.R.I.B.A. with wide general experience. A knowledge of Hospital planning would be an advantage although not essential.

Apply in writing to the Director of Recruitment, Colonial Office, Great Smith Street, London, S.W.1, giving briefly age, qualifications and experience and quoting reference number BCD 112/14/04. [1271]

APPOINTMENTS—contd.

CITY OF CAMBRIDGE.

APPLICATIONS are invited for the following appointments in the Architect's Section of the City Surveyor's Department.

- (a) Two SENIOR ASSISTANT ARCHITECTS (Grade V, salary £840-£900).
- (b) One ASSISTANT ARCHITECT (Grade III, salary £625-£725).

Applicants for (a) must be Associates of the R.I.B.A. who have had at least five years' post-graduate office experience and be capable of taking charge, from inception to completion, of specific large Educational and General projects. The posts will provide scope for the successful applicants to exercise ability in design, construction, administration and supervision of building work.

Applicants for (b) should preferably be Associates of the R.I.B.A. and have had good office experience of Schools or Housing work. The successful applicant is required as an Assistant for one of the posts in (a) above.

All appointments are superannuable, subject to medical examination, and terminable by one month's notice on either side.

Housing accommodation will be considered. Forms of Application may be obtained from the City Surveyor, The Guildhall, Cambridge, to whom they should be returned not later than August 4, 1955.

ALAN H. I. SWIFT,
Town Clerk.

PW/3/1A.
30/6/55. [1281]

URBAN DISTRICT COUNCIL OF CORBY.

DEPARTMENT OF THE ENGINEER AND SURVEYOR.

APPLICATIONS are invited for the following appointments:—

- (a) SENIOR QUANTITY SURVEYOR, Grade A.P.T. V (£750-£900), commencing at £750 per annum.
- (b) ARCHITECTURAL ASSISTANT, Grade A.P.T. III (£600-£725), commencing at £600 per annum.

The immediate building programme includes schemes for a Public Hall, covered Swimming Bath and Cafe, Cemetery Chapel and adjoining Staff Houses, in addition to Housing Contracts.

Housing accommodation will be made available to the successful candidates (if married).

Applicants for appointment (a) must have passed the final R.I.C.S. (Quantities Section) examination and be experienced in the preparation of Bills of Quantities, adjustment of Variations and settlement of final accounts. Previous experience of substantial Contracts for local authority housing is desirable.

Applicants for appointment (b) must have passed the R.I.B.A. intermediate examination or its equivalent at a recognised School of Architecture, and have had at least two years' experience in an Architect's Office (exclusive of pupillage). Preference will be given to applicants who have reached an advanced stage in preparing for the Final Examination and who have had Testimonials of Study accepted. A contemporary outlook and all-round general experience is desirable.

The provisions of the Local Government Superannuation Acts, 1937/1953, will apply to these appointments.

Forms of application may be obtained from the undersigned, to whom they should be returned not later than the first post on Saturday, July 30, 1955.

Testimonials will be required only from applicants selected for interview.

G. B. BLACKALL,
Clerk of the Council.

Council Offices,
Corby, Northants.
July 2, 1955. [1282]

APPOINTMENTS—contd.**SALOP COUNTY ARCHITECT'S DEPARTMENT.**

SENIOR ASSISTANT ARCHITECT required; salary grade A.P.T.V. (£750 to £900 p.a.). Applicants must be Members of the R.I.B.A.

A separation allowance of not exceeding 30s a week will be paid to a married officer taking up this appointment, together with third-class return railway fare once a month to visit his family, such allowances to be limited to a period of six months or until such time as the officer is able to obtain accommodation for himself and his family in Shropshire, whichever is the earlier.

Conditions of appointment and forms of application obtainable from **COUNTY ARCHITECT, COLUMN HOUSE, LONDON ROAD, SHREWSBURY**, returnable with three testimonials, not later than 29th July, 1955. [1270]

LONDON ELECTRICITY BOARD.**STRUCTURAL ASSISTANTS AND STRUCTURAL DRAUGHTSMEN.**

APPLICATIONS are invited for the above positions in the Construction Branch of the Chief Engineer's Department in Central London.

Applicants for the positions of Structural Assistants in the Civil Engineer's Section should have experience in the design and detailing of either reinforced concrete or steelwork structures. Applicants for the positions of Structural Draughtsmen should have a knowledge of building construction requirements and some experience in detailing reinforced concrete or steel structures.

The posts are graded under Schedule "D," National Joint Board agreement, as Grade 5—£672 to £777 and Grade 6—£535 10s to £661 10s per annum respectively, inclusive of London Allowance. Commencing salaries will be dependent on qualifications and experience.

Application forms obtainable from Personnel Officer, 46/7, New Broad St., London, E.C.2, to be returned completed by June 25, 1955. Please enclose addressed envelope and quote ref.: V/2003/AA. [1275]

BOROUGH OF OLDBURY.**BOROUGH SURVEYOR'S DEPT.—ARCHITECTS' SECTION.**

APPLICATIONS are invited for the appointment of an **ARCHITECTURAL ASSISTANT, Grade A.P.T. III** (£600-£725), in the Borough Surveyor's Department. Applicants for the appointment should be good architectural draughtsmen with experience in the preparation of working drawings and details from preliminary sketches and should have good experience of housing and education work normally undertaken by Local Authorities and capable of administering small building contracts.

The appointment will be superannuable, subject to the National Conditions of Service and to the selected candidate passing a medical examination.

Applications, giving particulars of age, qualifications and experience and the names of two referees, should be delivered to the undersigned not later than Monday, July 18, 1955.

KENNETH PEARCE,
Town Clerk.

Municipal Buildings,
OLDBURY,
Nr. Birmingham.
July 2, 1955. [1279]

CITY OF BIRMINGHAM.**CITY ARCHITECT'S DEPARTMENT.**

APPLICATIONS are invited for the appointment of a **SENIOR ASSISTANT ARCHITECT** in the Schools Section to be responsible for the organisation of a programme of major and minor works in connection with the modernisation and extension of School Buildings.

The appointment will be within Grade A.P.T. VI (£825/£1,000 per annum) at a commencing salary according to experience.

Applicants must be Associate Members of the R.I.B.A., or hold an equivalent qualification.

The post is permanent, superannuable, subject to a medical examination and to one month's notice on either side.

Applications, endorsed with the heading of the post, stating age, present position and salary, qualifications and experience, together with the names of two persons to whom reference can be made, should reach the undersigned not later than July 23, 1955.

Canvassing disqualified.

A. G. SHEPPARD FIDLER,
City Architect.

Civic Centre,
Birmingham, 1. [1266]

APPOINTMENTS—contd.**ARCHITECTS DEPARTMENT OF A VERY LARGE PUBLIC COMPANY in the Midlands need**

- (a) ASSISTANT ARCHITECTS.
- (b) ARCHITECTURAL ASSISTANTS.
- (c) ARCHITECTURAL SURVEYORS (measuring and plotting property and land).

QUALIFICATIONS are of less importance than ability. The work involved is of almost diverse character ranging from the extension and alteration of existing buildings to multi-storey blocks for commercial, industrial and scientific purposes. Generous initial salaries and prospects of advancement for competent and experienced people. The posts are permanent and there is an attractive contributory pension scheme. Five-day week, sports welfare and canteen facilities.—Full particulars, including salary required, to Box No. 559, c/o Smiths, 100, Fleet St., London, E.C.4. [1268]

COMMONWEALTH OF AUSTRALIA.**DEPARTMENT OF WORKS.****VACANCIES FOR ARCHITECTS.**

ARCHITECTS are required on Design and Construction work associated with National Defence Projects, Development work, Government Buildings, Airports and Housing in the State of South Australia.

SALARY: Salary range in Australian Currency is £890/£1,310.

Commencing Salaries:—
Diplomate £974
4-Year University Graduate £1,058
Graduate with Honours £1,100

QUALIFICATIONS:

Applicants should hold academic qualifications "Fellow or Associatehip elect of the Royal Institute of British Architects," or "The Diploma of a School of Architecture recognized for exemption from the Royal Institute of British Architects final examination granted at a date when the School was recognized."

The above qualifications automatically entitle applicants to Membership of the Australian Institute.

CONDITIONS:

Housing available for married Personnel. Subject to satisfactory service, there is, in sight, many years of employment. Further particulars regarding conditions of employment are available at Australia House.

Applications and enquiries should be addressed to:—

The Public Service Board Representative,
Australia House,
Strand,
London, W.C.2.

Applications close on 30.7.1955. [1283]

EXMOUTH URBAN DISTRICT COUNCIL.**APPOINTMENT OF ARCHITECTURAL ASSISTANT.**

APPLICATIONS are invited for the appointment of an **ARCHITECTURAL ASSISTANT** who will be primarily engaged upon Capital Works, at a salary of £650 per annum, rising by annual increments of £25 to a maximum of £775 per annum.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and the National Scheme of Conditions of Service, to the satisfactory passing of a medical examination, and to one month's notice on either side.

Applicants are required to have passed the final Examination of the Royal Institute of British Architects and to have had at least five years' experience.

Housing accommodation will be available. Applications, accompanied by three recent references, must be delivered to the undersigned not later than Thursday, July 14, 1955.

R. S. RAINFORD,
Clerk and Solicitor.

Council Offices,
EXMOUTH. [1284]

COUNTY BOROUGH OF BURY.

APPLICATIONS invited for appointment of **ARCHITECTURAL ASSISTANT**, Borough Engineer's Department. Salary up to £650-£775, National Scale of Salaries, according to qualifications and experience.

The appointment is superannuable and subject to medical examination.

Applications, stating age, details of training, qualifications and experience, together with names and addresses of two persons to whom reference may be made, must reach me not later than July 16.

EDWARD S. SMITH,
Town Clerk.

Town Hall,
Bury.
July 1, 1955. [1280]

PUBLIC NOTICE**CHANGE of Address.**

Messrs. Downes & Meehan, Architects, have changed their office from 53, Fitzwilliam Square, to 37, Leeson Park, Dublin. Telephone number unchanged. [1278]

TENDERS**COUNTY BOROUGH OF BRIGHTON.**

Tenders are invited for:

ERECTION OF A FIRE STATION AT ROEDEAN ROAD, BRIGHTON.

Bills of Quantities and Forms of Tender may be obtained from the Borough Engineer and Surveyor, 26-30, Kings Road, Brighton, on or after July 4, 1955, on receipt of a returnable deposit of £3 3s.

Tenders are to be delivered to the Town Clerk in plain sealed envelopes not later than first post on Tuesday, July 26, 1955.

W. O. DODD,
Town Clerk. [1263]

COMPETITION**ARCHITECTURAL COMPETITION.****NEW LEGISLATIVE COUNCIL BUILDING, UGANDA, E. AFRICA.**

THE Uganda Government invites architects registered in the United Kingdom or East Africa or corporate members of the R.I.B.A. in East Africa to submit in competition designs for a new Legislative Council Building, comprising a Council Chamber and ancillary offices, to be erected in Kampala.

Assessor, H. Thornley Dyer, F.R.I.B.A., A.M.T.P.I.

Premiums: £750, £500, £250.

Closing date for sending application for conditions, August 20, 1955.

Last day for submitting designs: January 21, 1956.

Conditions may be obtained by application to the Clerk of Legislative Council, P.O. Box 2278, Kampala, Uganda, East Africa.

Deposit: three guineas, by cheque or Bankers' Draft, made payable to The Uganda Administration. [1264]

MISCELLANEOUS SECTION

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No responsibility accepted for errors.

ARCHITECTURAL APPOINTMENTS VACANT

The engagement of persons answering these advertisements must be made through the local office of the Ministry of Labour and National Service, etc., if the applicant is a man aged 18-64 or a woman aged 18-59 inclusive, unless he or she or the employer is exempted from the provisions of the Notification of Vacancies Order, 1952.

RAMSEY, MURRAY & WHITE have vacancy for—

ARCHITECTURAL ASSISTANT, about intermediate standard, preferably with office experience.

Salary according to qualifications.—Apply 32, Wigmore St., London, W.1, or Telephone Welbeck 1409. [0984]

PROGRESSIVE and expanding London Office with widely varied practice requires Junior and Intermediate Architectural Assistants. Five-day week, good salaries.

LEWIS SOLOMON, SON & JOSEPH, 21, Bloomsbury Way, W.C.1. Hol. 5108 or 7082. [0938]

SENIOR Assistant required in busy practice in West End. Age about 30 years, qualified, with several years' experience and capable of running contracts.—Box 3851, c/o A. & B.N. [0636]

ARCHITECTURAL APPOINTMENTS VACANT—contd.

ARCHITECTURAL Assistant urgently required, Intermediate stage or above and with practical experience particularly in traditional domestic and other work.—Please write stating age, experience and salary required to Alleyne & Mansel, 18, Berners Street, London, W.1. [0004]

GOLLINS, MELVIN, WARD & PARTNERS, 15, Manchester Square, W.1, require Senior and Junior Staff, competent working drawings essential, opportunity to work on contemporary buildings.—Write or telephone Welbeck 9991. [1232]

ARCHITECTURAL Draughtsmen required; preference will be given to applicants having some experience in the design of industrial buildings and housing.—Write, stating age and full particulars, to A. E. Cresswell, A.R.I.B.A., 40, Claremont Rd., Cricklewood, London, N.W.2. [1249]

ARCHITECT'S Assistants required by Manchester firm of architects. Some previous office experience desirable and not less than Intermediate R.I.B.A. standard.—Write stating age, experience, qualifications and salary required, Box 4506, c/o A. & B. N. [1168]

ARCHITECTURAL Draughtsmen required by Ilford, Ltd., for Staff Architect's office. Applicants should have completed at least one year's office experience.—Apply in writing, stating age, training and experience to: Ilford, Ltd., Romford, Essex. [1261]

ARCHITECTURAL ASSISTANTS required for varied work. Intermediate and Final standard with at least two years' office experience.—Apply in writing stating age, experience, etc., and salary required to Cordingley & McIntyre, Chartered Architects, Owengate, Durham. [1274]

ARCHITECTURAL Draughtsman with some office experience in surveys and working drawings required by The Granada Group. Apply, stating age, experience and salary required to Chief Architect, Granada Theatres, Ltd., 149, Regent Street, London, W.1. [1260]

A WELL-KNOWN Midland motor manufacturer requires an Architectural Trainee who has completed his intermediate R.I.B.A. for work of interesting and responsible nature. He will be given opportunity to design complete garage premises.—Reply stating age and all relevant details to Box 4685, c/o A. & B. N. [1200]

ARCHITECT'S ASSISTANT required for the London office of a firm of Architects with interests throughout the country, must be of Intermediate to Final R.I.B.A. standard. Superannuation scheme.—Apply in writing to Messrs. Cotton, Ballard & Blow, 133a, Wembley Park Drive, Wembley, Middlesex. [0007]

APPOINTMENTS VACANT—ASSISTANTS of intermediate and final R.I.B.A. standard required in Architect's Department of E. S. & A. Robinson, Ltd., Bristol. Applicants should be capable of carrying out all branches of work and will be required to take charge of varied contracts.—Write, giving full details of experience and age. [1267]

ARCHITECTURAL Assistant (Intermediate Standard) required in Architect's office of the Estate Department, W. H. Smith & Son, Ltd., with ability to work up in and in scale drawings for new premises, alterations, etc. Knowledge of shop fitting an advantage. Salary according to age and experience. 5-day week. Superannuation scheme. Staff Canteen facilities, etc. Apply Personnel Manager, W. H. Smith & Son, Ltd., Strand House, Portugal Street, W.C.2. [1194]

ARCHITECTURAL APPOINTMENTS VACANT—contd.

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